

Chemical Week INDEX

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McGRAW-HILL, INC.

1221 Avenue of Americas — New York, New York 10020

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Coal				Great Britain's price freeze is putting chemical construction on a plateau	July	4	36	Pollution control costs				
Availability getting renewed attention in chemical plant site selection	Nov	21	13	Housing: Nixon Administration is moving away from housing subsidy programs	Aug	29	7	CEO estimates pollution control will cost \$274.2 billion during the next 10 years	Sept	26	10	
Cresap, W.Va. plant using OSF process to make oil from coal may be reactivated	Aug	22	55	Housing: Nixon's planned banking overhaul raises complex issues for CPI	Aug	15	17	CPI firms now finance pollution projects with municipal bonds	Oct	24	31	
Energy crisis focuses new emphasis on synthetic fuels from coal	Dec	19	41	Magnesium oxychloride plaster provides cheap steel fireproofing	July	18	25	EPA orders companies to help pay cost of treating waste water	Aug	29	11	
Energy shortage will spark sales of explosives to coal miners (chart)	Nov	21	51	Michigan State Building and Construction Trades Council ordered to show cause why strikes at Dow construction projects should not be halted	Oct	10	17	Japan's polluters will pay for cleanup program under new five-year plan	July	11	46	
Ethyl plans to acquire Elk Horn Coal	Dec	19	21	Netherlands' plant construction tax will curb industrial expansion	Nov	28	41	Japanese chemical company pollution control investments will zoom	Nov	14	38	
EXXON's coal research includes gasification process and liquefaction process	Sept	12	67	Plastic pipe market: Growing — no end in sight (chart)	Oct	17	53	Organic chemical makers will have to spend at least \$210 million/year in '74-'77 to meet effluent guidelines being developed by EPA	Sept	19	9	
Gasification see also Gasification				Sealants market: GE introduces Siglaze and Silprul	Oct	3	26	Pulp and paper producers will have to increase capital spending 40% by '75 to meet pollution control requirements	Dec	5	42	
Methanol process to convert coal into synthetic fuel will be tested	Oct	31	36	Shortage of pipe fitters, welders may put squeeze on CPI construction next year	Dec	12	49	Trade balance				
Methane from coal mines could double U.S. gas reserves, says USBM	Sept	19	40	Consumer Products				Natural fibers in short supply and prices are up (chart)	July	11	18	
Mr. Lowe's oil-for-coal ban — clue to a new fuels policy — Viewpoint	Sept	5	5	Consumer Product Safety Commission will regulate safety of chemical products	July	11	23	Prices: soaring prices benefit rayon	Aug	1	25	
Old Ben Coal plans plant to reduce the sulfur content of coal, provide a middle distillate liquid fuel	Nov	28	46	Hazardous consumer products list from CPSC includes chemicals among leading items	Oct	3	24	Supplies will continue tight during the next year says USDA	Aug	29	15	
Pipeline-quality gas (POG) from coal development is moving forward	Aug	15	31	Contact Lenses — Warner-Lambert's SOT-COA hydrophobic contact lenses receive FDA approval	July	18	15	Tariff Commission asked to probe the domestic implications of suspending import quotas on raw cotton	Nov	21	17	
Plant sites '74 report: John M. Winton	Oct	17	46	Containers				Cumene — Fire destroys Phenolchemie's plant in W. Germany	Sept	19	33	
How industrial power costs, charges for coal, oil and gas, and reserves compare (table)	Oct	17	46	Can that cools itself	Sept	12	78	Cyanide — Barrels of cyanide adrift as two ships collide in Gulf of Mexico	Sept	26	16	
Stepped-up research in coal gasification and liquefaction	Dec	5	18	Composite can plants in southern Calif., and Wadsworth, O., planned	Aug	15	18	Cyclamates				
Strip mining: Senate votes curbs on coal strip-mining on government-owned lands	Oct	17	21	Corrugated container plant near Columbus, O., planned	Sept	19	19	Abbott asks FDA to reverse the '69-'70 ban on cyclamates	Nov	21	15	
Synthetic fuel made from coal powers destroyer, U.S.S. Johnston	Nov	21	25	Cubitainers for outdoor storage	Aug	15	23	Abbott's cyclamate safety research report due	Nov	14	11	
U.S. Steel's clean-coke process described at AICHE meeting	Nov	21	27	Owens-Illinois plans glass container plant in Mansfield, Mass.	July	11	24	'Natural' is not always 'safe' — Viewpoint	Nov	28	5	
Why coal producers have big problems, too	Dec	19	42	Wilco bets on polybutylene for pipe, film, and container markets	Sept	26	23	Prospects for a cyclamate comeback are brightening: international symposium on synthetic sweeteners	Nov	14	11	
Coal-Tar Chemicals — Armco Steel plans major new plant at Middletown, O., coke complex	Oct	31	9	Contractors — Shortage of pipe fitters, welders may put squeeze on CPI construction next year	Dec	12	49	Tests fail to support FDA claim that cyclamates are carcinogenic; will FDA lift ban?	July	11	23	
Costings				Contracts				Cyclohexane				
Auto market — '74 models: smaller cars, a bigger CPI market	Sept	5	21	Escalation clauses and other price-related aspects of sales contracts will be more meaningful	July	25	22	Production	N	Oct	17	51
Bronx Zoo Lion Island's trees to get protective coats of glass-fiber-reinforced plastic 'bark'	Oct	10	17	Many chemical suppliers are no longer offering contracts because of worsening shortages	Nov	28	33	Shortages trim nylon production	Aug	29	9	
Coca-Cola bottle uses Du Pont's Surlin ionomer resin as coating	July	18	20	Controls — Energy conservation by means of instrumentation gets top billing at ISA's conference	Oct	24	33	Czechoslovakia — Chemical industry building boom (map)	Aug	1	27	
National Paint and Coatings Assn.'s program to find out what consumers want to know about paints and coatings and to supply the information in easy to understand form	Aug	29	26	Copper				DOT				
Nippon Dacro Shamrock will manufacture and market Dacrometal and Zinc Metal coatings	Sept	5	16	Cerro plans copper smelter refinery complex at Pine Bluff, Ark.	Sept	5	16	Ban on the use of DDT on crop and forest lands threatened by tussock and gypsy moths may be lifted	Nov	7	9	
Paint product mix will change drastically during the next 4 to 6 years, says NPCA's Brown (chart)	Nov	21	17	Korea: Furukawa to invest in copper smelter	Sept	26	25	DDT ban has resulted in heavy damage to trees, HAC says	Oct	31	36	
Shortages and allocations have the paint industry in a bind	Nov	14	31	Prices	Dec	19	19	House committee approves bill to allow DDT use in emergencies	Nov	21	17	
Cobalt — Nippon Mining plans to produce cobalt at Hitachi refinery	Sept	5	19	Reverse Copper & Brass will cut back production				N.J. proposed regulations would ban ten insecticides	Aug	22	41	
Cocoa — Monsanto introduces new 'true chocolate' flavor	Oct	17	51					Opposition to DDT ban is growing: Sen. Packwood says if EPA does not alter its position he will ask Congress to end the ban by legislation	Aug	29	35	
Costs								Tawan bans DDT	July	4	34	
Armco Steel plans major new plant for coal-tar chemicals	Oct	31	9					When zealotism becomes fraud — 'The DDT Myth' by Rita Gray Beatty — View-				
Chemical Week 300 (tables) Aug 22-34	Nov	21	44									

point	Aug	29	5
Dairy Industry — Chemical Week 300 (tables)	Aug	22-29	
Dawson, David — Named the industry's Senior Trade Advisor by five trade groups	Oct	10	13
Defense Department — Military comes up against shortages and is being forced into wartime measures	Oct	17	14
Dehydration — Koch Engineering develops new system to eliminate generation of waste liquor in wet scrubbing	Aug	29	35
Deliveries — Equipment shopper's guide: CW's survey of equipment delivery times (table)	Nov	7	69
Denkewalter, Robert — Allied Chemical's new v-p for technology Mountaineer aims high in technology	July	4	40
Deodorants, Household — Gel air fresheners, spray disinfectants spark specialties markets	July	18	23
Depreciation see Taxation			
Desalting see Water Treatment			
Designers: Engineering contractors push recruiting and training efforts to solve growing shortage of chemical plant design personnel	Nov	28	43
Desulfurization			
Bahamas Oil Refining awards contract to Badger for desulfurization unit at Freeport	R	Aug	22 19
European process for desulfurizing coke-oven gas is looking for work in the U.S.	Aug	15	31
Sludge disposal: big hurdle to success for stack-gas scrubbing	Dec	12	45
U.S. Steel plans desulfurization plant at Clairton Works	N	July	11 16
Detergents			
Chemical Week 300 (tables) Aug 22-30	Nov	21	40
Cost of Living Council grants price hikes	Oct	10	14
Detergent phosphates			
Berea, O. repeals a ban on phosphate detergents	R	Dec	19 21
Connecticut postpones a ban on phosphates until Jan. 74 hearings	N	Aug	15 21
Demand for detergent phosphates continues strong despite the ban in N.Y.			
State and reduction in the phosphate content of a number of major laundry detergents sold in other areas	N	Sept	12 32
Lake Ontario, N.Y., algae growth study shows phosphate ban eases lake eutrophication	N	Oct	31 36
Output is being hampered by electric power cuts and soda ash shortages	N	Sept	12 32
Prices	N	Oct	10 19
French chemical makers invade the super-markets — report	Nov	28	35
Labeling: FTC reaches agreement with 33 major household detergent manufacturers to include phosphate content of the products and uniform statements about biodegradable agents used	Aug	15	16
Diagnostic Chemicals — Automated testing and FDA rules cut diagnostic reagent sales, but makers still expect steady growth	Nov	21	54
Diammonium Phosphate — Beker Industries plans further expansion; buys phosphate deposits from PPG	Oct	17	24
2,2-dichlorovinyl dimethyl phosphate — major active ingredient in flea collars	Sept	26	34
Dicyclopentadiene			
Puerto Rican unit planned by Nippon Zeon, Mitsubishi and Corco	N	July	25 24
Shell's plant at Moerdijk, Netherlands	R	Oct	24 29
Diethylstilbestrol			
FDA called to task for allowing the use of DES to fatten animals long after it was discovered that the hormone can cause cancer	N	Dec	19 14
"Morning after" pill will require warnings to patients before it can be used	N	Sept	26 10
Dimethyl Silicone — Fluids prices	N	Dec	12 41
Dimethyl Terphthalate			
Brazilian plant	R	Aug	15 27
Du Pont plans plant at Old Hickory, Tenn.	R	July	25 20
Polyester fiber boom touches off major expansions in DMT, TPA (chart)	Aug	22	45
Disinfectants — Gel air fresheners, spray disinfectants spark specialties markets	July	18	23
Disposables — Diapers are main market in U.S. for nonwoven fibers; Honshu Paper's drylaid nonwoven fiber process sought by Johnson & Johnson & Colgate-Palmolive	N	Sept	26 9
Distribution			
Equipment shopper's guide: CW's survey of equipment delivery times (table)	Nov	7	69
How allocations are changing marketing strategy (charts)	July	4	13
NACD's annual meeting: Concern about scarcities of chemicals	Dec	12	11
No gray markets, please — Viewpoint	Aug	18	5
— letter	Aug	8	5
Dolomite — Prices	N	Oct	10 19
Drilling — Hungarian scientists develop a method of using sound waves to drill for oil	N	Aug	1 36

Drugs

Aerosol cold medications			
Aerosol decongestants containing 1,1,1-trichloroethane recalled and a potential ban on its use in solvents	N	July	18 20
Battle brews over effectiveness	Oct	24	12
Cheesbrough-Pond's Peruvian Night-Time Medicated Vaporizer spray			
Cleveland girl's apparently accidental death sets off FDA investigation	July	4	8
Spray ordered off the market	R	July	11 24
FDA orders manufacturers to submit list of products containing trichloroethane	N	Aug	22 10
Alka-Seltzer: Nader's HRG calls for the product's ban and censure of Miles Labs.	Aug	8	15
Antibiotics see Antibiotics			
Aspirin: Georgia researchers find a way to make liquid aspirin	Aug	1	23
Britain's Glaxo making a "very careful" study of the U.S. market	N	Aug	15 25
Chemical Week 300 (tables) Aug 22-27	Nov	21	39
Codine shortage seen as a result of halted opium production in Turkey	July	11	24
Cold drugs: FDA will postpone a showdown on prescription cold drugs	Aug	22	10
Contraceptive, Loestrin 1-20: FDA's objection to magazine ad explained by Parkie Davis	R	Aug	15 18
Contraceptives: DES and Depo-Provera will require warnings to patients before they can be used	N	Sept	26 10
Contraceptives: Upjohn's Depo-Provera injectable contraceptive: FDA gives preliminary approval for limited use	R	Oct	24 16
French chemical makers invade the super-markets — report	Nov	28	35
Fuel shortages concern manufacturers; priority status in any government petroleum allocations will be requested	Dec	12	13
Hercules and Montedison joint venture to market a group of Italian pharmaceutical products in the U.S. and Canada	Aug	8	14
Hormones see Hormones			
Hydrazine sulfate for clinical tests on cancer patients	Oct	24	35
Hydrophilic plastics may hold a new key to controlled release of drugs and medicines	N	Sept	19 39
ICI will spend more than \$240 million on drug R&D in U.K., France and USA	Oct	31	30
Israeli side-steps a British company's pharmaceutical patent	Nov	7	67
Justice Dept. moves amobarbital, secobarbital and pentobarbital from Schedule 3 of the Controlled Substances Act to the Schedule 2	R	Nov	21 20
Opium: no shortage of opium for medicinal use	Aug	22	10
Opium; stockpile opening up for morphine-containing opium gum	Dec	12	14
Penicillin: Pfizer to expand unit at Groton, Conn.	R	Aug	29 13
Price-fixing under investigation in West Germany	Aug	22	47
Propoxyphene: reclassification may eventually hurt Lilly's Darvon sales	Aug	15	17
Rorer-Amchem's William R. Rorer plant in Fort Washington, Pa., capacity upped	Oct	24	16
Sleeping pills containing glutethimide: H-E-W asks strict controls	N	Sept	26 10
Syntex plans pharmaceutical units in Puerto Rico and Spain	Oct	3	24
Thalidomide settlement: Distillers will pay \$50 million in compensation to victims	Aug	8	16
Tranquilizers: Roche Products suing the British government for damages suffered as result of an order to slash prices of Librium and Valium	N	July	4 12
British court will decide whether government was right in forcing price cuts	Aug	1	24
London's Appeal Court reverses High Court ruling	N	Aug	8 23
Sales of Valium and Librium will be restricted	N	Aug	22 10
Vaccines: NIAID's officials are taking steps to head off flu epidemics	N	Oct	24 35

Dry Color Mfrs. Asian

OSHA carcinogens' standards' challenge may go to Supreme Court

OSHA standards for ethyleneimine and 3,3-dichlorobenzene challenged. Philadelphia court vacates standards

Dyes

BASF Wyandotte's Palatin dyestuffs plant at Kearny, N.J.	N	Sept	19 25
Du Pont's Chambers Works, Deepwater, N.J., explosion and fire shuts dyes and chemicals operation	N	Oct	24 9
GAF, tariff ruling could block adjustment assistance for dye workers	Dec	5	21
ICI's plant at Huddersfield, Yorkshire, completed	R	Oct	24 29
Martin Manetta's sulfur dyes unit at Soddyco Div. plant in Charlotte, N.C.	R	Sept	5 16

E

Education — Dow's chemist, C.E. Hamilton's teaching plan tells how to fight pollution	July	25	32
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Elastomers — Elastomer chemical prices ..N Sept 26 21

Electric Power Generation

CPI companies strive to maintain production and earnings despite dwindling deliveries of costly fuels and power	Nov	28	12
Electricity cost increases likely early next year	Nov	7	9
Energy-conservation czars' assignment: find ways to reduce power consumption	Aug	8	27
Pacific Northwest: Several chemical process firms will have to shut down or curtail operations this winter to "pay back" the power "borrowed" from BPA	Nov	7	14
BPA tells customers repayments will not be necessary	Dec	5	19
Pacific Northwest: Washington state authorizes governor to curtail electricity	Sept	26	15
Pacific Northwest electrochemical producers will have to pay 20-30% more for power	N	Dec	19 13
Pacific Northwest power: Hopes rise with water	Nov	28	13
Plant sites '74 report: John M. Winton	Oct	17	46
Power capacity and reserves (table)	Oct	17	47
Puerto Rican power shortages will be over by Aug. 1 says Governor Hernandez Colon	July	25	18
Puerto Rico: Fuel oil shortage may produce power blackouts	Oct	31	10
Puerto Rico: New power station boosts generating capacity, cuts risk of outages that have forced curtailment of chemical production. Additional power is on the way	Oct	10	25
Puerto Rico: strike trims power supplies for chemical plants	July	18	13
Electrodes — UC plans graphite electrode plant in Calais, France	R	Sept	19 33

Electronics

IBM antitrust case. Judge favors Telex in tell-others-first finding; damages portion to be reopened	Oct	17	20
Monsanto launching electronic business expansion	R	July	11 24
X-ray process doesn't use silver-halide film	Aug	1	35
Electrolysis — Asahi Glass will use electrolysis to recover chlorine from effluent hydrochloric acid from refrigerant plant	N	Nov	7 76
Emollients — Hand lotion market	Oct	10	32

Employment

CPI migration: South, West tops in plant sites — McGraw-Hill's Economics Dept. survey (table)	July	18	15
U.S. Dept. of Labor BLS reports	July	18	14
CPI job boost	Aug	15	14
Slight drop in jobs	Sept	19	18
Jobs down	Oct	17	21
Job picture stable	Nov	14	17
Employment up	Dec	19	21
Slight drop in jobs	Oct	10	32
Emulsifiers — Hand lotion market	Oct	10	32

Energy Crisis

Administration proposals for combating the threat of an energy pinch seen likely to win chemical industry applause	Oct	31	11
AIChE meeting spotlights new developments in coal and solid-waste processing for energy and feedstocks	Nov	21	27
Arab oil embargo see Petroleum			
CPI companies strive to maintain production and earnings despite dwindling deliveries of costly fuels and power	Nov	28	12
Common sense can save energy — Viewpoint	Nov	7	5
Electric power shortages see Electric Power Generation			
Energy-conservation czars' assignment: find ways to reduce power consumption	Aug	8	27
Energy crisis may ease pollution control standards	Aug	8	25
Energy gap: cutbacks, shakeups	Dec	12	12
Energy issues again high on Washington's agenda	Dec	19	20
Feedstocks: What chemical firms are doing to develop new feedstock sources	Dec	5	17
Feedstocks see also Petrochemicals			
Fuel shortages see also Fuel ; and specific fuel, Coal etc.			
ISA's conference: Energy conservation by means of instrumentation gets top billing	Oct	24	33
MHD: U.S. and U.S.S.R. will cooperate on MHD energy research	Aug	1	35
NAC study says about 20-30% of U.S. energy needs by mid-'80 can be supplied by continental shelf resources	Sept	19	40
National Comm. on Materials Policy's final report on nation's over-all resource needs	July	4	9
Nixon Administration proposes seven ways to boost energy	Sept	19	15
Nixon's energy proposals applauded with some reservations	Nov	14	14
Nixon's energy conservation plans bring mixed reaction from CPI	Dec	5	19
Nixon wants to double government energy research spending	N	July	4 5
Oil shortage see Petroleum			
Plant sites '74 report: John M. Winton	Oct	17	46

Power capacity and reserves (table)	Oct	17	47	Ethyl Chloride — Shell's Deer Park, Tex., plant blast closes ethyl chloride unit	N	Oct	24	9	Oil-based protein plant building spurred by growing animal feed demand, soaring prices	Aug	6	20	
Plastics: "The Role of Plastics in Resource Recovery" — report	Sept	19	34	Ethyl Ether — Exxon to close Baton Rouge, La. plants	N	Oct	17	51	Oil crisis: European and Japanese chemical makers are switching products, processes and feeds to offset cuts in Arab crude shipments	Dec	5	33	
A start on a sane energy policy — Viewpoint	Oct	31	5	Ethylene					Patents: Europe to inaugurate one-stop patent shopping	Aug	29	34	
U.S. call for worldwide cooperation on energy falls on deaf ears	Dec	19	33	ARCO unveils plans for a \$200-million plant to produce ethylene, propylene, butadiene and aromatics at Channelview, Tex.		Oct	24	16	U.S. companies pace profitability upturn among chemical giants (table)	Oct	31	7	
U.S. outlays for R&D work on energy systems to be increased. Can \$20-billion R&D push defuse energy crisis? (chart & table)	Dec	19	15	Australia's Redcliff project goes to ICI-Alcoa-Mitsubishi consortium	N	Nov	14	21	World chemicals suppliers scrape bottom of barrel (table)	July	25	25	
Engineering				BP's plant at Baglan Bay still not fully operational	N	July	18	27	European Petrochemical Assn. — Naphtha price will soar	Oct	10	26	
Direct reduction: low-cost way to get into the steel business	Sept	5	32	China: French companies bidding on complex	N	Oct	3	34	Explosions				
Exxon restructuring its technology organization in an effort to remove barriers between research and engineering, and manufacturing and marketing	Aug	15	29	Crawford & Russell proposes ethylene recovery from refinery and coke-oven streams	N	Dec	19	39	Arizona explosion raises more questions about tank car safety	July	18	16	
Engines				Dow to up ethylene amine capacity at Freeport, Tex.	Oct	17	25	21	Chase Chemical's Newark, N.J., plant; one killed, 13 injured	Oct	31	15	
Honda: Chrysler obtains worldwide rights for Honda's CVCC engine	Sept	26	9	Dow's plant at Fort Saskatchewan, Alta., confirmed	N	Nov	28	41	Du Pont's Chambers Works, Deepwater, N.J., explosion and fire shuts dyes and chemicals operation	Oct	24	9	
Honda: How Ford's decision to make Honda engines will affect catalysts	July	25	20	Esso plans to boost capacity at plant near Cologne, W. Germany	R	Oct	31	30	Gearhart-Owen Industries' military munitions plant in Cleburne, Tex., explosion	July	18	16	
Thiokol wins contract from NASA to develop the huge solid-fuel rocket engines for the space shuttle	Nov	28	11	European makers aim to keep supply, demand in balance	N	Nov	14	24	Idemitsu's ethylene unit at Tokuyama City explosion and fire	July	18	27	
Environment				Exxon Chemical's Baton Rouge plant will use ethylene recovery process developed by Crawford & Russell	N	Aug	22	55	Mallinckrodt's Lodi, N.J. plant explosion causes threat of ban on production	Aug	22	17	
Alaskan pipeline see Piping				Feedstocks: What chemical firms are doing to develop new feedstock sources	Dec	5	17	25	Lodi, N.J., to take "every legal step" to prohibit rebuilding of plant	Sept	12	29	
Chemshow spotlights new pollution control equipment	Dec	5	38	Feedstocks see also Petrochemicals					Shell's Deer Park, Tex., plant blast closes ethyl chloride unit	Oct	24	9	
Delaware: Coastal area could ban about 55 industries	Sept	19	19	Great Britain's ethylene plants will be based on natural gas liquids	N	July	11	37	Veliscol's Chattanooga, Tenn., benzyl chloride plant fire and explosion	N	July	4	12
Dow's chemist, C.E. Hamilton's teaching plan tells how to fight pollution	July	25	32	Halcon International's Landau speaks of a new way of making ethylene glycol from ethylene	N	Oct	10	21	Explosives — Energy shortage will spark sales of explosives to coal miners (chart)	Nov	21	51	
Dow "stewardship" plan tailors products to environmental needs	Oct	3	45	Idemitsu's unit at Tokuyama City explosion and fire; company considering cancelling plans for ethylene plant at Chiba	N	July	18	27	Exports				
European Community adopts sweeping environmental protection program	Aug	1	32	Japanese producers coming to the aid of Idemitsu	N	Aug	1	25	Balance of trade				
Industrial R&D affected by environmental concerns	July	18	31	Tokuyama ethylene plant resumes operation	N	Sept	5	23	Big surplus in chemical trade balance will be hard to maintain (chart & table)	Aug	15	12	
Mr. Love's oil-for-coal ban is clue to a new fuels policy — Viewpoint	Sept	5	5	ICI starts up plant at Wilton, England	N	Aug	8	19	Favorable trade winds — Commerce Dept. figures (chart)	Dec	5	19	
Plant sites '74: They're building close to home — EPA's report, John M. Winton (charts & tables)	Oct	17	29	Japan: plant planned at Oita by Showa Denko	R	Oct	17	62	July: Good month for chemical trade — Commerce Dept. report (chart)	Sept	5	12	
Pollution control costs				Japan will need four more big units by '76 and '77	N	July	25	24	Second-quarter trade surplus	Aug	1	5	
CEO estimates pollution control will cost \$274.2 billion during the next 10 years	Sept	26	10	Japanese production	N	Sept	26	25	Trade surplus drops — Commerce Dept. report (chart)	July	4	9	
CPI firms now finance pollution projects with municipal bonds	Oct	24	31	Japanese shortage seen	N	Aug	29	29	Canada tax on crude may force cutbacks at some U.S. refineries	Oct	3	21	
Japan's polluters will pay for cleanup program under new five-year plan	July	11	46	Norway's Norsk Hydro will hold 51% interest in ethylene plant	Dec	19	36	36	Dawson: David will be chemical industry voice in talks with trade negotiators	Oct	10	13	
Japanese chemical company pollution control investments will zoom	Nov	14	38	Norwegian petrochemical complex plans set	Oct	17	57	57	Du Pont's McCoy: The system must give fair reading of nations' real output	Nov	21	15	
Organic chemical makers will have to spend at least \$210 million yearly in '73-'77 to meet effluent guidelines being developed by EPA	Sept	19	9	Pipeline from Leninvaros, Hungary, to Kalush, Russia, slated to start this month	R	July	4	35	East-West trade	July	11	16	
Pulp and paper producers will have to increase capital spending 40% by '75 to meet pollution control requirements. Added costs could change international trade balance	Dec	5	42	Prices: ICI price hike approved	R	Sept	26	25	* Bayer seeks to boost trade with China	July	11	16	
Puerto Rican Governor picks Mona Island as site for superport and refinery complex	Sept	26	17	Production — U.S. Tariff Comm. reports N Aug 15-21, N Sept 12-31 N	N	Oct	17	51	Bechtel signs technology cooperation pact with Soviets	July	11	15	
Total Resources & Environmental Profile Analysis system predicts the environmental impact of new products and processes	Dec	12	51	Propane: Administration's mandatory propane controls could hurt CPI firms	N	Sept	12	22	Canada: Saskatchewan potash producers find major market in China	Nov	7	61	
Environment see also Air Pollution; Waste Disposal; Waste Utilization; or Water Pollution				Shell Chemical's Norco, La. plant resumes operations after shut down caused by fire	N	Aug	22	41	China orders phosphate rock from Sobin Chemicals	Nov	21	13	
Environmental Protection Agency				Spanish plant planned by Empresa Nacional Petroleos de Tarragona	R	July	25	20	ISC-Rumania deal: Rumanian plastics for Kellogg contracts for Chinese plants	Dec	19	13	
Regulations, standards, etc. see Air Pollution; Environment; Waste Utilization; Water Pollution . Also see specific product — Herbicides, Insecticides etc.				Sumitomo plans ethylene-based complex for Singapore	Aug	15	26	N July 11-16, N Sept 12-17	Dec	5	31		
Train, Russell: As EPA boss, he'll get chance to enforce laws he helped to draft. Ready to take on polluters and conservationists	Aug	1	10	UC studying ethylene glycol-from-synthesis gas plant	N	Dec	5	36	Most-favored-nation tariff status for Russia is dead	Oct	10	10	
Enzymes				US sees ethylene from crude oil process affecting profits	Oct	31	10	10	Pressure is on for a trade link between Common Market and Comecon	Sept	12	56	
Industrial use of enzymes can be stimulated as a result of a means of recovering and using the controlling element, or co-enzyme	Aug	1	36	More details on new crude oil cracking technology	N	Nov	7	76	Soviet petrochemical products and process industries equipment and technology are beginning to find markets in the U.S.	July	4	34	
Progress in immobilizing enzymes reported	Sept	5	13	— Correction	N	Dec	12	51	German chemical exports thrive despite rising costs, revaluation — report (chart)	Sept	5	25	
Epoxies see Resins				Users rely on plant construction to ease supply crunch	Aug	1	11	11	Goodrich asks government to embargo exports of tallow and fatty acid chemicals derived from tallow	Aug	8	9	
Equipment — Shopper's guide: CW's survey of equipment delivery times (table)	Nov	7	69	Ethylene Dichloride — Australia: International consortium considering complex	July	25	18	18	High export prices compound chemical shortages	Nov	7	63	
Ethane				Ethylene Glycol					How chemicals are coping with soaring costs: producers trim product lines, boost prices and push exports (chart)	Sept	26	13	
Alberta Gas Trunk plans plant to separate ethane from natural gas	Nov	28	41	Antifreeze and polyester markets drain supplies; depressed prices, ethylene shortage holding up plans for adding capacity (chart)	Oct	24	25	25	ICI boosting exports to Continental Europe	July	18	27	
McClellanhan says about 50 million bbls./year of ethane could be added to feedstock supply if Washington would ease the 1,000 Btu/cu. ft. heating-value standard for natural gas	Nov	14	38	Halcon International's Landau speaks of a new way of making ethylene glycol from ethylene	N	Oct	10	21	International trade talks: CPI worry — will trade negotiators heed the chemical experts?	July	11	22	
UC Canada opposes exports proposed by Dome Petroleum and Dow	Sept	19	31	ICI frees up the freeze on glycol users	Oct	17	19	19	Japan's STA requests added incentives to sell technology	Oct	10	21	
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Ethanolamine — UC to expand capacity at Seadrift, Tex.	July	11	24	Europe					Japanese exports of PVC to be cut	Aug	8	23	
				Antitrusters are getting tough with cartels and other anticompetitive arrangements	Sept	19	10	10	Midwest turmoil threatens exports to U.S., endangers petrochemical feedstock supplies	Oct	17	17	
				Common Market Comm. will study pollution from TiOs	Sept	19	32	32	Northern Natural Gas plans to export about 2 million gal. of glycol to Japan in '74	Dec	5	25	
				Consortium, Eurodif, will build a giant gaseous diffusion plant	Dec	5	14	14	Northern Natural Gas will increase its plastics exports to the Far East	Dec	5	25	
				Ethylene makers aim to keep supply, demand in balance	Nov	14	24	24	Phosphate rock prices up	Nov	28	15	
				EC adopts sweeping environmental protection program	Aug	1	32	32	Plastic prefab houses will be battered for Indonesian hardwood	N	Aug	8	9
				EC Commission recommends prior notification for big Common Market mergers	Aug	1	29	29	Soybeans: government working out a plan to control exports of soybeans, soybean meal and SBO	July	4	7	
				Hercules considers sites for petrochemical complex	Aug	29	7	7	Trade mission to Spain and Italy being formed	July	11	36	
				ICI Europa aims to top \$2-billion sales mark by '80	Sept	19	33	33	UC Canada opposes ethane exports pro-				

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Fabric Softeners — Economics Lab. pushing into new I&I markets with new equipment and service packages Nov 28 21

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Drive for bigger crops will sustain the boom in farm chemicals (charts) July 25 14
Farmers clamor for allocations in first off-season fertilizer shortage Oct 10 11

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Beef shortage is tough on fatty acid producers (chart) Aug 29 8
Chemical shortages scorecard: what's tight, why, for how long (charts) July 18 11
Goodrich asks government to embargo exports of tallow and fatty acid chemical derived from tallow Aug 8 9
Federal Power Commission regulations see specific commodity, Natural Gas etc.
Federal Trade Commission — CPI companies up in arms over bid to get a detailed look at sales and profits of each product line N Oct 17 14
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Shrinking supplies presage a pinch (chart) N Aug 8 13

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Agroco's plant at Verdigris, Okla., contract goes to Kellogg N Nov 14 27
Argentina: YPF reactivating plan to build ammonia-based fertilizer unit N Aug 22 50
Complex will be built R Oct 17 62
Baker Industries adding plants at Idaho R July 25 20
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China: Fertilizer plant, Chinese style letter July 11 5
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Foreign buyers having trouble finding supplies Aug 1 26
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U.K. shortages could develop next year N Dec 12 19
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U.S. makers can't keep up with the growing demand N Dec 12 41

U.S. supplies may fall 10% short of demand in '74 — USDA report N Sept 12 31
Wheat farmers may force action on the fertilizer industry's application for increased supplies of natural gas to make ammonia N Aug 29 15

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Du Pont will give Kevlar "strong" image in bid for tire market Aug 1 12
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Hercules to double graphite fiber capacity at Bacchus, Utah, plant R Nov 14 19
Honsu Paper's dry-laid nonwoven fiber process sought by Johnson & Johnson and Colgate-Palmolive; disposable diapers is main U.S. market N Sept 26 9
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Japanese synthetic fiber profits skyrocket N Nov 14 21
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Du Pont asks price hike N Sept 26 21
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Alcolac's sales and earnings for '73, plants for '74 — President Anderson Jr. at N.Y. Security Analysts July 25 18
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Argentina: Price rollback will slash chemical sales 25%. Proposed limits on foreign equity and profit repatriation, plus kidnapping of executives may discourage new projects July 18 29
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Carbide's Wendel tells N.Y. security analysts "legislated" markets' promise long-term growth Nov 28 16
Chemical companies likely to raise dividends in light of the Nixon Administration's decision to relax its "voluntary" guidelines on payouts July 4 8
Chemical industry sales will expand 7-8% next year says Du Pont's Stuckey N Dec 12 9
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Heyday for the CPI in elevating earnings: too good to last? Nov 21 38
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Costs: How chemicals are coping with soaring costs: producers trim product lines, boost prices and push exports (chart) Sept 26 13
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Deutsche mark revaluation will hurt West German exports and cut into profits N July 11 37
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Dow plans to issue bonds worth \$80 million Swiss francs repayable in '84-'88, through a syndicate of Swiss banks R Sept 5 16
Dow's Gerstacker defends the Cost of Living Council's attack on chemical prices and profits N July 4 5
El Lilly earmarking more than \$300 million for expansion N Oct 17 13
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Interest rate boosts won't hurt CPI July 18 14
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Japanese direct chemical investment in U.S. may be cut short by trade and monetary problems at home Nov 14 22
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Outlook for '74: Chemicals will outpace a cooling economy (charts) Nov 21 14
Overseas capital spending by U.S. chemical companies will climb in '74 — McGraw-Hill Economics Dept. survey N Aug 22 9
Overseas investment: limits on U.S. companies' direct overseas investments may be lifted N Sept 12 18
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Pennwalt presents figures to Philadelphia analysts to prove its products were not very energy-dependent Dec 5 20
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Dow Canada restarts polyethylene plant at Sarnia, Ont. after flash fire	July	11	36
Du Pont's Chambers Works, Deepwater, N.J., explosion and fire shuts dyes and chemicals operation	Oct	24	9
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for lead content in gasoline that were reduced by EPA	Dec	12	51	25% of reinforced fiber sales '78 . . . Navy's "Shamu" underwater testing vehicle, may open new marine markets for epoxy- reinforced glass fiber	July	25	20	Herbicides Arenchem schedules expansion of Amiben herbicide	Oct	17	25	
Lead-in-gas, NACD's complaints about the effects of reducing the use of lead in gasoline echoed by some producers of lead alkyls	Dec	12	11	Owens-Corning/Du Pont's Sheerfil: new idea in roofing	Dec	5	23	Army uses chemical defoliant in Florida without EPA clearance	Nov	7	16	
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Motor fuel demand creates massive bid for users of benzene, toluene and xylene . . Octane ratings may not appear on gasoline pumps before next year: court overrules ruling that FTC did not have authority to impose trade regulations on an entire industry	Aug	8	11	PPG expansion at Lexington, N.C. . . . Glutethimide — H-E-W asks strict controls for sleeping pills containing glutethimide . . Glycidyl Methacrylate Biemer's chemical plant at Bayport In- dustrial Park near Houston dedicated . . Nippon Oils & Fats and Marubeni form U.S. company to build plant in Aug 22-41 . . .	July	25	20	Microwave device, the Zapper, to do the work of pesticides and herbicides . . . Prices Stauffer introduces Sutan + Unifox 2,4-D acetate will challenge 2,4-D in battling aquatic weeds Hexamethylenetetramine — Brazil-Japanese joint venture in Aug 22-48	Oct	17	51	
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Germany BASF's nuclear power plant prospects for approval improve because of the oil crisis?	Dec	12	19	Aug 1	35	Sept	12	55	BPA tells customers repayments will not be necessary	Dec	5	19
Bayer and Rohm set up joint venture, Makroform, to extrude polycarbonate semifinished products	Sept	19	33	Aug 1	35	Sept	12	55	Pacific Northwest power: Hopes rise with water	Nov	28	13
Bayer breaks ground for its second big chemical complex, this one, at Bruns- büttel	Oct	10	31	Aug 1	35	Sept	12	55	Hydrocarbons Chemical Exchange will produce hydro- carbon resin intermediates at Baytown, Tex. plant acquired from Borg-Warner . . Feedstocks: SOS on deteriorating hydro- carbon supplies	Nov	7	14
Bayer will have a new chairman, Herbert Gruenewald, in July '74, when Kurt Hansen retires	Sept	5	23	Aug 1	35	Sept	12	55	Feedstocks: Shortage could throttle output at some CPI plants in '74	Nov	14	14
Butadiene plant starts up at Wesseling . Degussa sales and earnings, 72-73. High costs hurt	Aug	22	49	Aug 1	35	Sept	12	55	Goodyear Tire & Rubber plans hydrocarbon resin expansion at Beaverton, Ore. . . Hercules plans hydrocarbon resin plant and integrated hydrogenation plant in Baton Rouge, La.	Oct	3	24
Deutsche mark revaluation will hurt West German exports and cut into profits . . Dow's methyl chlorine plant at St. Louis Dow's Slade chlorine unit protested by citizens	July	11	37	Aug 1	35	Sept	12	55	Oct	10	17	
Slade unit: chlorine plant adjusts to life in countywide	Oct	17	67	Aug 1	35	Sept	12	55	Hydrogen NASA testing hydrogen as an additive to cut auto exhaust emissions	Sept	26	31
Du Pont will build nylon staple plant at its Urentrop fiber complex	Oct	31	30	Aug 1	35	Sept	12	55	On-site plants swap hydrogen for waste oil: partial oxidation may be new low-cost route to tonnage hydrogen	July	11	49
Esso plans ethylene capacity boost at plant near Cologne	Oct	31	30	Aug 1	35	Sept	12	55	Research on making hydrogen from water gets financial backing from SoCal Edison and Northeast Utilities	Nov	14	38
Exports: proud perch for the German eagle — (chart)	Sept	5	25	Aug 1	35	Sept	12	55	Hydrogen Peroxide — Substitute for chlorine Hydroxyethyl Cellulose — Hercules' Natosol unit at Parlin, N.J., plant	Nov	28	45
Hoechst is bullish	Oct	10	30	Aug 1	35	Sept	12	55	Iceland — UC plans ferrosilicon smelter . . Imports ASP see Tariffs Balance of trade	Aug	1	26
Huels' butadiene plant using BASF pro- cess	Oct	24	29	Aug 1	35	Sept	12	55	Big surplus in chemical trade balance will be hard to maintain (chart & table) . . Favorable trade winds — Commerce Dept. figures (chart)	Dec	5	19
Iran and German oil companies sign letter of understanding to study refinery at Bushehr	Sept	12	68	Aug 1	35	Sept	12	55	July: Good month for chemical trade — Commerce Dept. report (chart)	Sept	5	12
Iran signs comprehensive economic co- operation pact	Oct	24	26	Aug 1	35	Sept	12	55	Second-quarter trade surplus	N	1	5
Norsea Gas considers petrochemical complex at Emden	July	11	37	Aug 1	35	Sept	12	55	Trade surplus drops — Commerce Dept. report (chart)	July	4	9
Phenolchemie's cumene oxidation plant destroyed by fire	Sept	19	33	Aug 1	35	Sept	12	55	Carbon, activated: Import duties on spent carbon will be reduced	Dec	5	14
Synthetic fiber output will be cut because of the Arab oil embargo	Dec	12	19	Aug 1	35	Sept	12	55	Cotton quotas ending?	Nov	21	17
West German chemical boom continues . . West German chemical makers will get 15% less naphtha in first-half '74	Oct	17	57	Aug 1	35	Sept	12	55	Dawson, David: Will be chemical industry voice in talks with trade negotiators . . Dumping: ABS from Japan to be investi- gated	Oct	10	13
West German exports continue to rise . . West German exports of ammonia fertilizer may drop	Dec	19	33	Aug 1	35	Sept	12	55	Being sold at less than fair value in U.S. Treasury finds	N	18	9
West German exports of ammonia fertilizer may drop	Aug	1	29	Aug 1	35	Sept	12	55	Aluminum — U.S. imports from Canada not hurting U.S. industry says Alcoa	Oct	17	25
West Germany investigates pharmaceutical price-fixing	Dec	5	31	Aug 1	35	Sept	12	55	Says Tariff Comm.	R	Aug	22
Gillet, Renaud — Rhone-Poulenc's new chair- man: At home in boardroom and book- store	Aug	22	47	Aug 1	35	Sept	12	55	Dumping: Canadian producers charged with dumping sulfur	Aug	1	9
Alkali: Expansion in natural soda ash may be key to abundant alkali	Aug	29	38	Aug 1	35	Sept	12	55	Dumping duties in doubt	Oct	31	9
Chemical Week 300 (tables) Aug 22-34 . . Machine-made glass-ceramic	Dec	19	23	Aug 1	35	Sept	12	55	Treasury says primary deficit is reported from Canada and Australia is	July	25	23
Machine-made glass-ceramic	Nov	21	44	Aug 1	35	Sept	12	55				
Owens-Illinois plants in Mansfield, Mass. .	Nov	21	25	Aug 1	35	Sept	12	55				
	July	11	24	Aug 1	35	Sept	12	55				
Glass Fibers Bayer breaks ground for its second big chemical complex, this one, at Bruns- büttel	Oct	10	31	Aug 1	35	Sept	12	55				
Bronx: Zoo Lion Island's trees to get pro- tective coats of RFG plastic "bark" . . . Cast made of PP, glass fiber and resin . . Celanese Products' reinforced-glass-fiber materials plant near Wichita Falls, Tex. John Manville building manufacturing unit at Willows, Calif.	Oct	10	31	Aug 1	35	Sept	12	55				
Land transportation market will account for	Aug	15	23	Aug 1	35	Sept	12	55				
	Aug	15	23	Aug 1	35	Sept	12	55				
	Aug	15	23	Aug 1	35	Sept	12	55				
	Aug	15	23	Aug 1	35	Sept	12	55				
	Aug	15	23	Aug 1	35	Sept	12	55				
	Aug	15	23	Aug 1	35	Sept	12	55				
	Aug	15	23	Aug 1	35	Sept	12	55				
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	Aug	15	23	Aug 1	35	Sept	12	55				
	Aug	15	23	Aug 1	35	Sept	12	55				
	Aug	15	23	Aug 1	35	Sept	12	55				
	Aug	15	23	Aug 1	35	Sept	12	55				
	Aug	15	23	Aug 1	35	Sept	12	55				
	Aug	15	23	Aug 1	35	Sept	12	55				
	Aug	15	23	Aug 1	35	Sept	12	55				
	Aug	15	23	Aug 1	35	Sept	12	55				
	Aug	15	23	Aug 1	35	Sept	12	55				
	Aug	15	23	Aug 1	35	Sept	12	55				
	Aug	15	23	Aug 1	35	Sept	12	55				
	Aug	15	23	Aug 1	35	Sept	12	55				
	Aug	15	23	Aug 1	35	Sept	12	55				
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	Aug	15	23	Aug 1	35	Sept	12	55				
	Aug	15	23	Aug 1	35	Sept	12	55				
	Aug	15	23	Aug 1	35	Sept	12	55				
	Aug	15	23	Aug 1	35	Sept	12	55				
	Aug	15	23	Aug 1	35	Sept	12	55				
	Aug	15	23	Aug 1	35	Sept	12	55				
	Aug	15	23	Aug 1	35	Sept	12	55				
	Aug	15	23	Aug 1	35	Sept	12	55				
	Aug	15	23	Aug 1	35	Sept	12	55				
	Aug	15	23	Aug 1								

being sold in the U.S. at less than fair market value	Oct	24	13	notification for big Common Market mergers	Aug	1	29	Mosquito larvicide: California conducts tests of Zoon Corp.'s Altosid SR-10 growth-regulating mosquito larvicide	Aug	29	33	
Du Pont's McCoy: The system must give fair reading of nations' real output	Nov	21	15	Mergers: fewer mergers emerged reports Grimm & Co.	Oct	17	21	N.J. proposed regulations would ban ten insecticides and insecticide groups	Aug	22	41	
East-West trade				Mergers & acquisitions				Pesticides				
Bayer seeks to boost trade with China	July	11	16	Airco says "two unrelated companies" are each contemplating tender offers for an unspecified portion of the firm's common stock	Nov	14	18	Drive for bigger crops will sustain the boom in farm chemicals (charts)	July	25	14	
ISC-Rumania deal: Rumanian plastics for ISC technology	Dec	19	13	British Oxygen interested in making a tender offer	Nov	21	20	EPA hearings: Shell's Sloan offers five-point plan for control of aldrin, dieldrin uses	Oct	24	12	
Most-favored-nation tariff status for Russia is dead	Oct	10	10	Curtiss-Wright makes tender offer for Airco shares	Dec	12	15	Microwave device, the Zapper, to do the work of pesticides and herbicides	N	July	18	31
Pressure is on for a trade link between Common Market and Comecon	Sept	12	56	British Oxygen tossing in more chips	Dec	19	18	N.J. proposed regulations	N	Aug	22	41
Soviet petrochemical products and process industries equipment and technology are beginning to find markets in the U.S.	July	4	34	Akzona's acquisition of Cutter Labs. discussed	Nov	7	12	OSHA emergency standards: Nine organophosphorus pesticides will be deleted from the list of 21	July	4	5	
U.S.-Soviet "North Star" deal: second natural gas deal signed	July	11	15	American Aniline Products plans to increase its stake in dyes with acquisition of Tenneco Colors R Dec 5-22	Dec	12	13	OSHA EPA hearings on pesticide safety will cover a much broader range of issues than OSHA	N	Aug	22	10
Fiber imports falling — Commerce Dept's data	Oct	24	12	AMAX acquires 50% interest in Howmet's Eastalco aluminum reduction plant at Frederick, Md.	Sept	12	24	Prices	N	Sept	26	21
French government authorizes Cof Chimie's imports and refining of crude oil for petrochemical complex at Carling, Phillips Petroleum asks for approval to import and refine crude	July	11	37	Armstrong Rubber buys Gates' tire plant at Nashville, Tenn.	Oct	3	15	Sterilant ENT-61585 may be used to combat the boll weevil	N	Oct	10	10
N GAF: tariff ruling could block adjustment assistance for dye workers	Dec	5	21	Atlantic Richfield: First Mississippi may buy fertilizer plant; negotiating to buy Koppers' interest in Sinclair-Koppers	Aug	15	15	Synthetic juvenile hormones research could open the way to biological controls for insects	N	Sept	12	68
International trade talks: CPI worry — will trade negotiators heed the chemical experts?	July	11	22	Canada Development makes tender offer for up to 10 million shares of Texasgulf	Aug	1	9	Institute of Gas Technology				
Japan's imports are soaring (table)	July	25	26	Bids stalled by suits, countersuits	Sept	12	29	Contract to pilot the "steam-iron" process to generate hydrogen from partially gasified coal	N	Aug	15	31
License fee rule structure causes chemical companies to consider building refineries to produce olefins and aromatics	Sept	5	11	Aug 8-15, Aug 15-18, Aug 22-16	Sept	12	29	Protein-from-petroleum activity	N	Aug	8	20
Mideast turmoil threatens exports to U.S., endangers petrochemical feedstock supplies	Oct	17	17	Texasgulf's rising stock prices may block CDC's bid for control	Oct	3	15	U-Gas, new coal gasification process for low-Btu fuel, is looking for users	N	Aug	1	35
Neoprene: Treasury to impose dumping duties on imports from Japan. Prelude to price hike?	Nov	14	15	Will rosy profits change Texas stockholders views on tenders?	Oct	17	24	Process looking for help	N	Dec	19	41
Oil embargo see Petroleum — Arab oil embargo	Oct	17	17	CDC's next step — board representation	Nov	28	16	Instrument Society of America — Houston's conference. Energy conservation by means of instrumentation gets top billing	Oct	24	33	
Oil quotas	Nov	14	15	Settlement between the two companies	Dec	12	9	Instruments				
Interior Dept. taking steps to resolve the contradictions between Nixon's energy message and the old oil import regulations	Aug	29	11	Consolidated Aluminum's purchase of Olin's aluminum business	Sept	26	9	Absorption spectrophotometer measures minute concentrations of cadmium in about 30 seconds	N	Aug	1	36
Oil Import Regulation 9B will permit petrochemical plants to bring in heavy feedstocks	July	11	46	A good deal for both	Oct	3	18	Energy conservation by means of instrumentation gets top billing at ISA's conference	Oct	24	33	
Petrochemical makers are at sea on oil imports	July	25	30	Dow and Phillips Industries call off negotiations for Dow's purchase of an interest in Phillips-Duphar chemical division	Aug	29	12	Insulation				
Prospects for mandatory allocations of oil and oil products are dimming	July	11	33	Ethyl plans to acquire Elk Horn Coal	Dec	19	21	Johns Manville ups production capacity of Therma-12 insulation	R	Aug	22	19
Plastic prefab houses will be barred for Indonesian hardwood	Aug	8	9	Exxon sells Spanish nylon-6 venture, Nurel to Banco Industrial del Mediterraneo	Sept	26	25	Urethane makers face product-misrepresentation lawsuit over flammability	Oct	10	16	
Reynolds International: New Orleans jury indicts RI on charges of violating import sanctions against Rhodesia and falsifying import documents submitted to Customs	Nov	14	15	Goodrich and Akzo negotiating the sale of shares in Chemische Industrie AKU-Goodrich	July	18	9	Insulin — Synthetic insulin moves a step nearer commercial reality	N	Nov	21	25
Rhodesian chrome: sanctions called for	Sept	12	18	Grace acquires Magnes Petroleum	Dec	5	19	Insurance				
Trade bill see Tariffs	July	11	36	Hooker acquiring some agricultural chemical operations from Occidental	July	11	16	ACS committee proposes insurance program that would provide compensation for "technological injury"	Oct	31	15	
INCHEBA — Saturday, this must be Inc-heba. Herbert C. Short	July	4	29	Houston Natural Gas buying Northern Propane Gas' south Texas retail operations	Sept	19	15	Missouri again challenges Monsanto's employee plan	Aug	15	18	
Incineration				Kewanee Oil discusses possible "affiliation" with Husky Oil	Nov	14	18	Inter-governmental Maritime Consultative Organization — calls international conference to draft sea-pollution conventions	N	Oct	17	65
GE's Saugus plant converts refuse into energy using water-walled incinerator	Sept	26	29	Affiliation talks dropped	Dec	19	21	Intermediates				
Netherlands incineration complex treats chemical and municipal waste, generates power and makes distilled water	July	25	28	Mistui buying 50% stake in Amax's aluminum business	Aug	22	9	Chemical Exchange will produce hydrocarbon resin intermediates at Baytown. Tex. plant acquired from Borg-Warner	R	Aug	29	13
India				Occidental Petroleum's chemical division acquires business of Barlo of New England	July	11	16	Polymer intermediate prices	N	Sept	26	21
Aluminum fluoride plant near Madurai, planned	Oct	24	29	Organ considering a major U.S. pharmaceutical acquisition	Nov	7	12	Syntax plans expansions at Boulder, Colo. and Freeport, Bahamas	R	Oct	3	24
Canpotex potash deal	Sept	26	9	Schiavone & Sons' tender offer for up to 130,000 shares of Corenco okayed by N.Y. judge	Aug	22	16	Inventories				
HDPE capacity increase planned by Polyolefins Industries Ltd.	Aug	29	30	United Nuclear bowing out of its 43% partnership with Gulf Oil in Gulf United Nuclear Fuels	Aug	15	16	Chemical companies making modest additions to inventories — Census Bureau figures	N	Oct	3	15
Southern Petrochemical Industries plans fertilizer complex	Aug	29	30	Mergers and acquisitions: for newsletter and roundup items see under individual company names in Company Index				How allocations are changing marketing strategy (charts)	July	4	13	
Styrene plant and polystyrene unit at Baroda	Oct	24	29	Puerto Rico: New power station boosts generating capacity, cuts risk of outages that have forced curtailment of chemical production. Additional power is on the way	Oct	10	25	Man-made fiber inventories — Textile Economic Bureau report	N	Nov	7	61
Sulfuric acid plant, using Bulgarian technology, to be built	Oct	24	29	UC plans to spend \$100 million on new project in West Virginia but will shut down Cubatão, Brazil olefins units	Aug	22	16	Shortages trim output, payrolls	N	Aug	15	17
Indonesia				Would chemical suppliers scrape bottom of barrel (table)	July	25	26	Sulfur stocks at end of July at their lowest '73 level	N	Sept	26	21
Petramina banks on natural gas reserves to end dependence on fertilizer imports	Oct	17	59	Ink				Iran				
Petrochemical complex planned	Aug	15	26	Chemical Week 300 (tables) Aug 22-30	Nov	21	40	British Industrial Plastics plans resin units	N	July	4	36
Plastic prefab houses will be barred for Indonesian hardwood	Aug	8	9	French chemical makers invade the super-markets — report	Nov	28	35	Crude oil to be exchanged for 50% of Ashland's N.Y. operations	Aug	8	14	
Polyester fiber plant near Jakarta planned by Teijin	Sept	19	33	Inmont asks printing ink price boost	Sept	26	21	National Iranian Oil and German oil companies sign a letter of understanding to study refinery at Buschir	N	Sept	12	68
Industry Developments				Shortages and allocations have the paint industry in a bind	Nov	14	31	Transco Energy will receive methanol fuel and NGL for conversion in the U.S.	Oct	3	15	
Acquisitions and mergers: for newsletter and roundup items see under individual company names in Company Index				Sun Chemical will construct gravure printing ink plant in northern Ill.	Aug	15	18	Utilities are ready to help Mideast countries build U.S. refineries	N	July	18	9
Area development see Area Development				Sun Chemical's bid for price hikes trimmed by CLC	Oct	17	19	West Germany signs comprehensive economic collaboration pact	N	Oct	24	26
Chemical shortages scorecard: what's tight, why, for how long (charts)	July	18	11	Inland Waterways — Tonnage of chemicals shipped in U.S. inland waterways in '72 increased (table)	Nov	21	18	Iraq — Fertilizer plant at Basrah to be expanded	R	Oct	17	62
Czechoslovakia's chemical industry building boom (map)	Aug	1	27	Inorganic Chemicals — Five-volume compendium, "Comprehensive Inorganic Chemistry"	Sept	12	68	Iron				
Great Britain's chemical industry: booming despite tough price controls — report	Oct	3	30					Direct reduction: low-cost way to get into the steel business	Sept	5	32	
Italy: Soaring demand strains Italy's chemical capacity — report (charts)	Dec	12	23	Insecticides				Exxon's fluidized iron ore reduction process (FICOR) will be put to work in Venezuela in joint venture N Aug 29-35	Sept	5	32	
Mergers: Chemical companies bucked the downward trend in merger activity during first-half '73. W.T. Grimm survey	July	18	9	Chlorinated insecticides see Pesticides — lindane, endrin, etc.				FDA orders that the iron content of enriched bread and flour be doubled; also smaller increases in the thiamin, riboflavin and niacin content	Oct	24	12	
Mergers: EC Commission recommends prior				DDT see DDT				Recycling of wastes from steel-mill stack				

gases will be tried at Republic Steel's South Chicago plant	N	Nov	21	25
Iron Oxide				
Hercules sells Hiwassee, Va. plant to Hoover Color	R	Oct	17	25
Shortages of red and yellow iron oxide developing	N	July	11	16
Isocyanates — Kasei-Upjohn plans processing plant in Japan	R	Oct	31	15
Isoprene — Puerto Rican unit planned by Nippon Zeon, Mitsubishi and Corco	N	July	25	24
Israel				
Chemical industry expanding	N	Nov	28	41
Side-steps a British company's pharmaceutical patent	N	Nov	7	67
Sulfuric acid plant	R	Sept	19	33
Italy				
Alta, joint venture formed, to build a plant for pipeline corrosion protection products	R	Oct	3	33
Chemicals are leading the Italian economic pickup	Sept	12	56	
Government approves \$114 million worth of new projects in the chemical and textile sectors	N	Aug	22	48
Government has taken over Montedison's aluminum activities	N	Sept	19	31
Montedison restructuring plans for its synthetic fiber operations	N	Oct	10	31
Montedison will build seven chemical plants in USSR and will take payment partly in products from those plants	N	July	18	27
Montedison will get ammonia in payment	N	July	25	24
Montedison will continue discharging wastes into the sea from titanium dioxide plant at Scarlino as discharge permit is renewed	N	Aug	29	35
Production at Scarlino is curtailed as local magistrate confiscates barges	N	Oct	3	43
Montefiore hopes to avoid labor strike by guaranteeing to maintain employment levels or to provide new jobs for workers laid off as a result of plant shutdowns	N	July	4	36
Perisulfate plant planned	R	Aug	22	50
Polycarbonates plant planned	R	July	4	35
PV butyral film plant planned	R	July	4	35
Program of subsidies for chemical plants in underdeveloped Mezzogiorno area will continue (table)	Oct	31	27	
Protein project: BP's plans jeopardized by rising costs	N	Oct	17	57
Roman authorities consider flea-control collars as an answer to infestation of fleas	Sept	26	34	
Soaring demand strains Italy's chemical capacity — report (charts)	Dec	12	23	
SIR may join the ranks of tire producers to build a tire plant near Naples	N	July	4	36
Terni Industrie Chimiche to build PPG-licensed silica pigments plant	N	Oct	17	13
Trade mission to Spain and Italy being formed	July	11	36	

J

Jamaica — Refinery planned by Italian group	July	11	20	
Japan				
Acrylic fiber unit will double capacity at Hoku	July	4	35	
Brazilian investments run into some delays and prospective local partners are unhappy	Sept	12	53	
Chemical company pollution control investments will zoom	N	Nov	14	38
Chemical industry growth will slow in the '72-'77 period	N	Aug	1	29
Chisso Petrochemical's Chiba Works shut down ordered following fire of undetermined origin	N	Oct	24	20
Direct chemical investments in U.S. may be cut short by trade and monetary problems at home	Nov	14	22	
Du Pont plans photographic products finishing plant in Shimizu	R	Sept	19	33
Ethylene: four more big units will be needed by '76 and '77	N	July	25	24
Ethylene plant planned at Oita by Showa Denko	R	Oct	17	62
Ethylene shortage seen	N	Aug	29	29
Fishermen charge mercury contamination is threatening their livelihood	July	4	34	
Chlorine makers being forced to switch to diaphragm cells N July 18-31	Aug	1	31	
Chlorine makers playing millions to fishermen for mercury pollution losses	N	Aug	22	47
Fishermen cause shut down of Chisso's Minamata, Kyushu island works	N	Aug	29	39
Chisso preparing to start up Minamata, including PVC plant	Sept	5	23	
Chisso Corp. will pay \$8.3 million to fishermen who lost catches because of pollution	N	Nov	28	18
Frozen food warehouse that will be kept cold by LNG rather than conventional refrigerants, will be built near Tokyo	Sept	12	73	
Idemitsu's unit at Tokuyama City explosion				

and fire; company considering cancelling plans for ethylene plant at Chiba	N	July	18	27
Japanese producers coming to the aid of Idemitsu	N	Aug	1	25
Tokuyama ethylene plant resumes operation	N	Sept	5	23
Imports are soaring (table)	N	July	25	26
Lysine: Kyowa Hako Kogyo plans to produce petrochemical lysine	N	Oct	3	43
Malaysian officials are angry about Japanese cutbacks in deliveries of PVC, PE and VC monomers	N	Sept	19	32
Method of making ultrafine metal powder may be commercialized	N	Aug	29	33
Mitsubishi cuts output at its Sakai works due to industrial water shortage	N	Sept	5	23
Mitsubishi Petrochemical plans styrene monomer plant at Kashima	R	Aug	29	30
Nippon Polymers to study feasibility of butyl rubber plant	R	Aug	22	50
Nixon-Tanaka meeting highlights	N	Aug	8	31
Oil crisis: European and Japanese chemical makers are switching products, processes and feeds to offset cuts in Arab crude shipments	Dec	5	33	
Organic flocculating agents plant planned by Mitsubishi and Kao Soap at Yokohama	R	Aug	29	30
Petrochemical production cutbacks due to Arab oil embargo	N	Nov	21	35
Petrochemicals plants running at near capacity but can't meet demand for some commodities	N	Sept	26	25
Polluters will pay for cleanup program under new five-year plan	N	July	11	46
PVC exports to be cut	N	Aug	8	23
Propylene oxide plant	N	Oct	4	34
STA requests added incentives to sell technology	N	Oct	10	21
Siberian natural gas development: Soviets up ante for U.S. and Japan	N	Nov	21	13
Styrene monomer plant	R	July	4	34
Sumitomo Chemical reduces production at Oita works following fire	R	Aug	22	48
Survey of chemical needs through '80 predicts big new demand spurt, with petrochemicals expanding at about 10%/year (table)	Sept	26	26	
Synthetic fiber profits skyrocket	N	Nov	14	21
Textile producers searching U.S. for chemicals in short supply in Japan	N	July	25	22
U.S. companies pace profitability upturn among chemical giants (table)	Oct	31	7	
VC producers want to delay shipments of VC to China	N	Aug	22	48
VCM plant at Kashima expansion	R	Sept	12	55
World chemical suppliers scrape bottom of barrel (table)	July	25	25	
Jonnard, Amison — new chief of the Tariff Comm.; Chemical insider goes to Washington	Oct	17	77	
Jordan — Phosphate fertilizer plant feasibility study	R	July	18	16

K

Kane, Edward — new president of Du Pont	July	25	15	
Managing No. 1 chemical company is a two-man job	Aug	29	27	
Korea				
National Iranian Oil turns down offer from Teijin to participate in refinery	N	Aug	1	29
South Korea: Japan's stake continues to grow	N	Sept	26	25
Sulfuric acid plant at Seokpo, South Korea, planned	R	Sept	12	55
Synthetic fiber plant for North Korea	R	Aug	8	16
Kyankite — Combustion Engineering will increase operation capacity at Washington, Ga.	R	Sept	5	16

L

Labeling				
CSMA's meeting: Concerned about labels	Dec	12	42	
Cosmetics: Common Market is getting ready to set tougher rules	Nov	21	56	
Cosmetics: FDA will step up regulation	N	Oct	10	10
Detergents: FTC reaches agreement with 33 major household detergent manufacturers to include phosphate content of the products and uniform statements about biodegradable agents used	Aug	15	16	
Labeling, drugs see Drugs				
Labeling, law see Law				
Labor				
American Enka: TWUA agrees to 3-year contract at four plants	R	Oct	24	16
Ciba-Geigy's St. Gabriel, La., herbicide plant institutes a modified 3-day work schedule for shift workers	Oct	24	13	
Construction: Shortage of pipe fitters, welders may put squeeze on CPI construction next year	Dec	12	49	
Dow contract negotiations for AEC's Rocky Flats, Colo. plant still up in the air	R	Aug	22	18
Great Britain: Major chemical operations shut down because of technical and labor				

problems	N	Dec	5	31
ICI (U.K.) faces stiff pay demands at its next labor bargaining session	N	Nov	7	67
Italy's Montefiore hopes to avoid labor strife by guaranteeing to maintain employment levels or to provide new jobs for workers laid off as a result of plant shutdowns	N	July	4	36
Labor-Management Committee of the Business Roundtable (BRT) is stepping up its efforts to present industry's case on a variety of local and national labor issues	N	Aug	29	13
LNG storage tank disaster at Staten Island, N.Y.: three companies cited for alleged violation of job-safety standards	N	July	25	28
NIOSH recommends job health standards for toluene diisocyanate, chromic acid and toluene	N	Aug	8	9
NIOSH standards: producers and users of trichloroethylene and inorganic mercury will incur additional costs if proposed standards are accepted	Sept	12	23	
OSHA				
Emergency standards: Nine organophosphorus pesticides will be deleted from the list of 21	N	July	4	5
When the safety sleuth comes to call — letters	July	11	5	
Carcinogenic chemicals: proposed permit system is expected shortly	N	July	11	33
Carcinogenic chemicals: OSHA wants to make temporary standards for 14 carcinogens permanent, standards dealing with worker exposure to 12 pesticides runs into trouble	July	25	18	
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Du Pont purchases a "technical disclosure" of Maruzen Oil's process to make TPA by oxidation of para-xylene	N	Nov	28
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Hercules joint venture with Amerasia-Hess to build a plant in St. Croix, Virgin Islands	N	Oct	24
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Biospherics system for removing phosphates from sewage shows up well in test at Seneca Falls, N.Y. treatment plant	N	Oct	3
China orders phosphate rock from Sobin Chemicals	N	Nov	21
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EPA expected to propose this week a zero-discharge standard by '83 for phosphate plant waste discharges into waterways	Sept	5	13
Florida producers have a new crop of problems	N	Sept	12
IMC considering building phosphate rock operation	N	Oct	10
Morocco boosts prices	N	Nov	14
Occidental Petroleum acquires acres of phosphate rock reserves in Fla.	N	Aug	8
Occidental Petroleum expanding White Springs, Fla., mine	Oct	31	15
Phosphate rock prices up N Sept 19-25	Nov	28	15
Pritchard-Rhodes will study feasibility of phosphate fertilizer plant in Jordan	R	July	18
Producers report high rates	N	Sept	5
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Seaboard Coast Line's Rockport, Fla. terminal: phosphate rock shipments moving again	N	Aug	1
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Valley Nitrogen receives first West Coast shipment of phosphate rock from the Spanish Sahara	N	Aug	22
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Recycling phosphoric acid from an aluminum finishing plant will be demonstrated at Douglas & Lomason's Cleveland, Miss. plant	Sept	26	31	
Texasgulf plans expansion of its operations in N.C.	N	Sept	19	25
Uranium Recovery will install uranium separation unit in Grace's plant at Bartow, Fla.	N	Aug	1	35

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Du Pont gets go-ahead for price hike on photographic products	Dec	5	21	
Du Pont plans photographic products finishing plant in Shimizu, Japan	R	Sept	19	33

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Exxon expanding phthalate plasticizer capacity at Baton Rouge, La.	N	Oct	3	26
Phthalic Anhydride — Rhone-Progil's process applications pushed	N	Dec	19	39

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Indol expands azoic and phthalic dry pigments at Cliffwood, N.J.	R	Dec	19	21
Italy: Terni plans PPG-licensed silica pigments plant near Rome	N	Oct	17	13
PPG will phase out Silene EF and Silene L calcium silicate pigments at Barberton, O.	R	Dec	19	21
Silica prices	N	Dec	19	29

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Alaskan pipeline: natural gas across Canada plans firming up	N	July	11	15
Senate approves Gravel's amendment	N	July	25	13
Alaska line nears 'go'	N	Aug	1	11
Congress waves filing of environmental impact statement for pipeline, may signal softening of stand on controls	N	Aug	8	25
Atia, joint venture formed, to build a plant for pipeline corrosion protection products in Italy	R	Oct	3	33
Arctic Islands to eastern Canada: decision is at least a year away for natural gas pipeline	N	July	25	13
Ethylene pipeline from Leninvaros, Hungary, to Kalush, Russia, slated to start this month	R	July	4	35
FPC eases rules on short-run gas sales to pipelines	N	Sept	26	10
Plastic pipe: Growing market for plastic pipe — no end in sight (chart)	N	Oct	17	53
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Metropolitan Petroleum's Maine oil refinery plans: hearings	Sept	12	25
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ICI Australia plans PE film capacity boost at Deer Park plant	R	Aug	22
Journal of the AMA reports 3 women developed severe respiratory problems following exposure to fumes produced by cutting PVC film with a hot wire		Nov	14
Polyvinyl butyral film plant in Italy planned		July	4
Wilco bets on polybutylene for pipe, film and container markets		Sept	26

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Exxon expanding phthalate plasticizer capacity at Baton Rouge, La.	N	Oct	3	26
Hercules to expand Missouri Chemical Works at Louisiana, Mo.	R	Oct	17	25
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ABS: Japanese dumping of ABS to be investigated	N	July	18
Treasury finds ABS from Japan selling at less than fair value in U.S.	R	Oct	17
ABS prices	N	Nov	28
ABS production — SPI report	N	Aug	29
Auto boom ups plastics use	N	July	11
Auto market — '74 models: smaller cars, a bigger CPI market		Sept	5
Auto use will decline	N	Dec	19
Automobiles: Small cars will trim chemical sales		Dec	5
Bags: multiwalled plastic bags tackle tough chemical packaging problems		July	11
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Degradables are still debatable: technology is available, but the markets haven't opened enough to spur commercialization

Engineering plastics developments

Expansion planning in plastics is becoming a very sensitive subject for sales management

Fire-retardant plastics fan interest in antimony oxide (chart)

Foam see **Foams**

GM's Estes cites disadvantages of plastic auto parts

Hydrophilic plastics may hold a new key to controlled release of drugs and medicines

Injection molders, hit by shortages of raw materials, launch a campaign for government aid

ISC-Romania deal: Rumanian plastics for ISC technology

National Plastics Exposition: Accenting the new

Pipes: Growing market for plastic pipe — no end in sight (chart)

Pipes: How safe? Natural gas line explosions trigger investigation

Pipes: Indian Head's Carlon Div. PVC pipe and fittings expansions

Pipes: Johns-Manville's PVC plant at Tucson, Ariz., onstream

Pipes: Wilco bets on polybutylene for pipe, film and container markets

Prefab houses will be barded for Indonesian hardwood

Reinforced plastics: Owens-Corning forecasts '78 consumption of glass-fiber-reinforced plastics by the electrical industry at 140 million lbs.

RFP markets will continue to grow at 15% year

The Role of Plastics in Resource Recovery

Shortages may become less severe by mid-'74, but demand will continue to outstrip supply for at least several years

SPI statistical report

Starches can be used to decompose plastic materials: says British scientist Griffin

Griffin process for biodegradation of plastics employs starch

Thermoplastics: consumption rising faster than output

Thermoplastics setting production records: SPI report

UOP plans plastic sheet plant near Postville, Ia.

Windecker Eagle I: Dow-sponsored all-plastic airplane turns in fastest time in Powder Puff Derby

Plastics see also specific plastic

Platinum — Catalyst boom brightens outlook for platinum-group metals (chart)

Plywood — Phenolic resin shortage will lead to cutback in plywood output

Poland

Arco Industrial Gases will use European distributors to market helium from Polish plant

Joint ventures with Western investors seen this fall

Polishes — Chemical Week 300 (tables) Aug 22-30

Politics

Campaign contributions: Gulf Oil, Goodyear join list of firms admitting campaign gifts

Nixon: Embattled President on probation

Polyamides

Du Pont develops aromatic polyamide resin, new engineering plastic

Du Pont will give Kevlar "strong" image in bid for tire market

Polybutylene

Wilco bets on polybutylene for pipe, film and container markets

Wilco will double the size of its plant at Taft, La.

Polycarbonates

Italian plant planned

West German joint venture, Makroform, to extrude polycarbonate semfinished products

Polychlorinated Biphenyls

FDA adopts regulations banning industrial use in food processing and packaging plants

GE faces damage suits over spill near Kingston, Tenn.

Polyester

Bronx Zoo Lion island's trees to get protective coats of glass-fiber-reinforced plastic "bark"

Oct 10 17

Celanese licenses ICI to make and market reinforced grades of thermoplastic polyester resin	R	Aug	22	41
Costa Rican texturizing and knitting plant	R	July	11	36
Du Pont doubling capacity of Reemay spunbonded polyester production at Old Hickory, Tenn.	R	July	4	10
Du Pont expanding Dacron polyester draw-textured feed yarns at Kinston, N.C.	R	July	18	16
Du Pont plans Dacron fiber plant near Charleston, S.C.	R	Aug	22	19
Du Pont plans filament plant at Coteau de Lac, Canada	R	Nov	28	41
Du Pont purchases a "technical disclosure" of Maruzen Oil's process to make TPA by oxidation of para-xylene	N	Nov	28	46
Du Pont will trim polyester filament yarn, staple and tow shipments	N	Nov	14	27
Eastman Chemicals will boost fiber and filament capacity at Carolina Eastman plant, Columbia, S.C.	N	Sept	26	9
Fiber boom touches off major expansions in DMT, TPA (chart)	R	Aug	22	45
Firestone starts up Hopewell, Va. plant	R	Dec	12	15
Glycol shortage causes production cut-back	R	July	11	20
Indonesian plant near Jakarta planned by Teijin	R	Sept	19	33
Market drains ethylene glycol supplies (chart)	R	Oct	24	25
Singapore plant	R	Aug	1	11
Teijin plans to triple fiber and textile capacity overseas	N	Oct	3	34
Thai Chemical Fiber orders polyester fiber plant from Zimmer	R	Aug	29	30
Thailand joint venture	R	Oct	3	33
Yugoslavia's polyester staple and filament plant based on U.S. technology	N	Oct	24	9

Polyethylene

China orders PE plant from Japanese	R	Aug	8-16	
Dow Canada restarts plant at Samia, Ont. after flash fire	R	Aug	29	30
Exxon Chemical's Baton Rouge plant will use ethylene recovery process developed by Crawford & Russell	N	July	11	36
Foamed PE can be molded within four minutes to make casts, splints and supports for orthopedic deformities and broken bones	N	Aug	22	55
HDPE Production problems have snarled Chile's petrochemical output	N	Aug	15	25
HDPE prices N Sept 26-21	N	Nov	7	61
India: Polyolefins Industries plans HDPE capacity increase	R	Aug	29	30
LDPE plant at El Tablazo, Venezuela, by Polimeros del Lago	R	Oct	17	62
LDPE resin prices N July 4-12	N	Sept	26	21
Malaysia officials are angry about Japanese cutbacks in deliveries of PE	N	Sept	19	32
Netherlands: Sekisui Chemical to build irradiated cross-linked PE foam plant at Roermond	N	Aug	29	29
Northern Natural Gas will increase its exports to the Far East	N	Dec	5	25
Pennwalt's azo initiators plant will augment the company's line of organic peroxides	N	Dec	19	39
Philippine petrochemical project may be revived	N	Sept	12	56
Phillips plant at Adams Terminal, Tex. to get additional capacity	R	Oct	17	25
Plastic pipe's growing market: no end in sight (chart)	R	Oct	17	53
Prices: LDPE — ICI price hike approved	N	Sept	26	25
Production — SPI report	N	Aug	29	15
SPI statistical report	N	Aug	1	25
Polymerization — Pennwalt's azo initiators plant will augment the company's line of organic peroxides	N	Dec	19	39

Polymers

Barex 210 resin: Sohio plans plant	R	Aug	15	18
China's research is focused on high polymer chemistry	N	July	18	31
Degradables are stiff debatable: technology is available, but the markets haven't opened enough to spur commercialization	N	Dec	12	42
Dow's hand lotion, Touch of Sweden, includes a polymer ingredient	N	Oct	10	32
Hydrophilic plastics may hold a new key to controlled release of drugs and medicines	N	Sept	19	39
Output swells (table)	N	Oct	3	19

Polyolefins

Expansion planning in plastics is becoming a very sensitive subject for sales management	N	Nov	28	33
SPI statistical report	N	Aug	1	25
Polyolefins — Urethane polyol capacity at UC's South Charleston, W.Va., plant will be upped	N	Nov	21	13

Polypropylene

Amoco Chemicals' plant to be built at Geel, Belgium will ease U.S. supplies	R	Oct	17	62
Artificial turfs are no safety problem, government agency says	N	Oct	31	15

Buildup is under way in the Benelux countries	N	Dec	12	19
Cast made of PP, glass fiber and resin	N	Aug	15	23
DSM plans plant at Beek, Netherlands	R	Dec	5	22
European prospects good; Solvay plans unit	N	Dec	19	33
Farbwerke Hoechst expansions in West Germany, France, Australia and South Africa	N	Aug	1	26
Hercules adds capacity	July	4	7	
Hercules plans plant in Europe, possible in Belgium	Dec	5	20	
Hoechst Australia's plant at Altona, Victoria	R	Oct	24	29
Japanese-developed PP based synthetic paper may be produced in the U.S.	N	Nov	14	22
Mitsubishi plans PP plant in the U.S.	N	Nov	14	22
Patent battle between Phillips and Karl Ziegler's interests: Supreme Court may get in on the fight	N	Aug	22	55
Philippine petrochemical project may be revived	N	Sept	12	56
Prices — SPI report	N	Nov	7	61
Production — SPI report	N	Aug	29	15
SPI statistical report	N	Aug	1	25

Polystyrene

Dow Chemical Europe and Organsko Kemiska joint venture in Yugoslavia	N	Sept	19	31
Foam tray producers fight Cleveland ordinance, which would require see-through packaging for meat	N	Nov	14	16
Investment Dynamics plans to auction off 1,000 metric tons of polystyrene	N	Aug	8	23
Prices in Canada	N	Sept	26	21
Production — SPI report	N	Aug	29	15
Richardson Co. buys Petrochemical Investment's Houston resin plant	R	July	4	10
Russia: Lihwin to build styrene unit, sell some output in U.S.	N	Dec	19	18
Russia: Monsanto and Lummus negotiating with USSR for construction of a styrene complex	N	Dec	5	31
U.K. tender offer canceled	N	Aug	22	47

Polyvinyl Chloride

Chile production problems have snarled petrochemical output	N	Aug	15	25
Indian Head's Carlon Div. PVC pipe and fittings expansions	R	July	18	20
Japanese exports to be cut	N	Aug	8	23
Japanese PVC Assn. seeks to delay shipments to China	N	Aug	22	48
Japanese production	N	Sept	26	25
Johns-Manville acquires Zeston, producer of premolded PVC insulation fittings and covers	N	Oct	31	15
Johns-Manville's pipe plant at Tucson, Ariz. onstream	R	Sept	19	19
Journal of the AMA reports 3 women developed severe respiratory problems following exposure to fumes produced by cutting PVC film with a hot wire	N	Nov	14	19
Malaysia officials are angry about Japanese cutbacks in deliveries of PVC	N	Sept	19	32
Markets put the squeeze on VCM, demand capacity etc. (chart & table)	R	Aug	1	15
Philippine petrochemical project may be revived	N	Sept	12	56
Plastic pipe's growing market: no end in sight (chart)	R	Oct	17	53
Precision Polymers suit charges Allied broke supply pact, antitrust laws	N	Sept	26	16
Production — SPI report	N	Aug	29	15
Resin plant at Freeport, Tex., to be built	N	Nov	14	22
Shortages continuing in the U.K.	N	July	11	41
VCM see also Monomers				
Poromeric Materials — Armour Leather will build Xylee material plant	R	Sept	19	19
Portland State University — Tsongas: "Geothermal energy looks very attractive in comparison with other sources of energy"	N	Dec	19	37

Potash

Canada: Saskatchewan prorating	N	July	18	20
Important changes are in the works	N	July	18	20
Producers will boost output	N	Aug	1-25	
Saskatchewan outlook is improving	N	Oct	3	26
Production allowances for miners spelled out	N	Oct	10	19
Government enters controversy	N	Oct	17	51
Potash producers find major market in China	N	Oct	31	25
Saskatchewan has hiked producers' output limits in response to anticipated 20% jump in world demand in '73-74 season (chart)	N	Nov	7	61
Canpotex deal with India	N	Nov	14	29
Norandex options potash land near Carlsbad, N.M.	N	Sept	26	9
Prices: Canadian boosts	N	Sept	12	32
Production up 12%	N	Oct	24	20
Potassium Carbonate — Diamond will increase capacity at Muscle Shoals, Ala., plant	R	Sept	5	19
	R	July	4	10

Powder Metallurgy

Japanese develop new method of making ultrafine metal powder	R	Aug	29	33
Kaweco Beryllco Industries signs agreement	N	Aug	29	33

to use UC's plasma-spray powder technology	N	July	25	22
Preservatives — Texize's Proiong, preserver for Christmas trees and flowers	N	Dec	19	32

Prices

CPI price hikes: little ones now, big ones must wait (charts)	N	Sept	19	13
CW's stock prices and index (tables) — July 4-11, July 11-25, July 18-19, July 25-21, Aug 1-14, Aug 8-17, Aug 15-19, Aug 22-20, Aug 29-14, Sept 5-18, Sept 12-30, Sept 19-20, Sept 26-19, Oct 3-25, Oct 10-18, Oct 17-26, Oct 24-18, Oct 31-16, Nov 7-17, Nov 14-20, Nov 21-22, Nov 28-19, Dec 5-24, Dec 12-17	N	Dec	19	22
Consumer Price Index	N	Aug	29	12
Dow's Gerstaecker defends the Cost of Living Council's attack on chemical prices and profits	N	July	4	5
Durkiewicz at ACS says oil from tar sand and gas from coal will determine ceiling prices of oil, methanol and natural gas	N	Nov	14	11
Escalation clauses and price-related aspects of sales contracts will be more meaningful	N	July	25	22
Fourth-quarter price boosts being studied by chemical companies	N	Aug	22	41
Fuel shortage controversy: lawsuits, subpoenas, investigations and proposed legislation	N	July	18	15
High export prices compound chemical shortages	N	Nov	7	63
How chemicals are coping with soaring costs: producers trim product lines, boost prices and push exports (chart)	N	Sept	26	13
Lone Star Gas and Kaiser Aluminum executives tell security analysts that the removal of price controls would substantially boost their profits	N	Nov	7	15
NAPM says agents look for more price increases	N	Sept	5	19
Phase IV	N	July	4	3
No substitute for output — Viewpoint	N	July	25	16
Phase IV puts added pressure on chemical profits	N	Aug	1	3
Why we want a fast end to Phase IV — Viewpoint	N	Aug	1	10
Phase IV key: flexibility	N	Aug	15	14
Phase IV changes: How much help?	N	Aug	22	17
How will feedstocks fare?	N	Sept	5	12
Several applications for Phase IV chemical price hikes are pending	N	Sept	26	14
Cost of Living Council hears requests for price increases	N	Oct	10	14
Sept 26-21	N	Oct	17	19
CLC says 'no' to some	N	Oct	24	20
Kaiser Aluminum & Chemical applies for price decontrols	N	Oct	31	13
Aluminum industry stepped up its protest against price controls	N	Oct	31	21
CLC loosens the reins	N	Oct	31	21
Wholesale price index — BLS reports	N	July	18	13
Fats pace price climb (chart)	N	Aug	15	14
Prices edge up (table)	N	Aug	29	12
Slight gains	N	Sept	19	13
Wholesale prices (charts)	N	Sept	19	18
Chemicals tabs go higher (table)	N	Oct	10	14
Chemicals buck trend	N	Nov	14	17
Prices up	N	Dec	12	16
Chemical tabs move up	N	Dec	12	16
Prices also see specific chemical, commodity etc.	N	Nov	21	40
Printing — Chemical Week 300 (tables)	N	Nov	21	40
Aug 22-30	N	Oct	17	19
Printing links — Sun Chemical's bid for price hikes trimmed by CLC	N	Oct	17	19

Process Equipment

Chemshow. Business is brisk as equipment vendors feature new techniques for coping with problems of chemical processing	N	Dec	5	38
New orders for chemical process equipment continue to increase	N	Dec	19	13

Product Development

ACS proposes ways to ease product entry	N	Oct	31	15
Dow "stewardship" plan tailors products to environmental needs	N	Oct	3	45

Production

Ammonia plants operated at 93% of capacity during first six months of '73	N	Sept	5	19
Commerce Dept's "U.S. Industrial Outlook" (table)	N	Oct	31	12
Industrial production index drops but CPI bucks downturn (table)	N	Sept	26	17
Industrial production up — Federal Reserve Board report (table)	N	Aug	29	12
Operating rates: Chemical process companies are running close to capacity — Federal Reserve Board index	N	Sept	12	18
Operating rates mixed — McGraw-Hill's Economics Dept. report	N	July	4	8
Operating rates gain	N	Sept	5	12
Output growth slows — FRB figures	N	July	25	16
Output on the rise	N	Oct	24	15
Output still going up (table)	N	Nov	28	16
Shortages scorecard: what's tight, why, for how long (charts)	N	July	18	11

Shortages trim output, payrolls Aug 15 17
World chemical suppliers scrape bottom of barrel (table) July 25 25
Production see also specific chemical, commodity etc.
Profitability — U.S. companies price profitability upturn among chemical giants (table) Oct 31 7

Propane

Administration's mandatory propane controls could hurt CPI firms Sept 12 22
Arizona explosion raises more questions about tank car safety July 18 16
Feedstocks: Mandatory oil allocations change chemical feedstock outlook Oct 10 13
Houston Natural Gas buying Northern Propane Gas' south Texas retail propane operations Sept 19 15
Price up 3¢/gal N Sept 12 32
Winter forecast: how propane users are coping with mandatory fuel allocations Oct 31 33
Propoxyphene — Davon: propoxyphene reclassification may eventually hurt Lilly's Davon sales Aug 15 17

Propylene

Arco unveils plans for a \$200-million plant to produce ethylene, propylene, butadiene and aromatics at Channelview, Tex Oct 24 16
Prices: ICI price hike approved N Sept 26 25
Production Oct 17 51
Suppliers for Texas' plants: Gulf and Amoco to supply Hercules; Shell to supply Rohm and Haas July 11 21
Propylene Oxide — Japanese plant R July 4 34

Protein

BP considering more protein-from-oil plants in Europe N Oct 24 26
Du Pont will develop protein process in joint venture with Rankis Hovis McDougall N Oct 17 65
Italy: BP's project jeopardized by rising costs N Oct 17 57
Japanese plants for China N Sept 19 32
Oil-based protein plant building spurred by growing animal feed demand, soaring prices Aug 8 20
Staley Mfg's Decatur, Ill., soybean processing complex expansion R Dec 12 15
Westinghouse's membrane system will recover lactose and protein from whey N Oct 10 21
Public Relations — MCA meeting theme: "The Chemical Industry Image — How Others See Us" Nov 28 14
Old answers aren't good enough — Viewpoint Dec 5 5
Publisher's Page — McCurdy takes the global Dec 12 5
VIEWA
Puerto Rico projects see under specific chemical or company name

Pulp

Boise Cascade's expansion plans R Nov 21 20
Chemical Week 300 (tables) Aug 22-23 Nov 21 42
Expansion plans: many problems lurk in the forest (charts) Dec 12 10
Mead starts up chemical recovery unit to increase yield from kraft pulping at Chillicothe, O. R Oct 10 17
Ontario Paper plant to treat liquid wastes R July 11 36
Pollution control costs: Producers will have to increase capital spending 40% by '75 to meet pollution control requirements. Added costs could change international trader balance Dec 5 42
Pulp chemicals continue to be in short supply N Oct 3 26
Russia buys sulfate wood pulp plant from Sweden Aug 22 47
Scott Paper to build pulp manufacturing plant in Maine to take over Winslow, Me. operations to be phased out R Sept 26 17
Pulp Chemicals Assn. — Pulp chemicals in short supply N Oct 3 26

Purchasing

Black market in chemicals is emerging rapidly N Nov 7 9
Delivery delays, higher prices, shortages are plaguing chemical buyers N Nov 14 27
Escalation clauses and other price-related aspects of sales contracts will be more meaningful N July 25 22
How allocations are changing marketing strategy (charts) July 4 13
Military comes up against shortages and is being forced into wartime measures N Oct 17 14
NAPM says agents look for more price increases N Sept 5 19
NAPM's Andrews says classic signs of an overheated economy are all present N July 11 41
NAPM's October survey shows almost everything is in short supply N Nov 7 61
No gray markets, please — Viewpoint N Aug 8 5

Pyrolysis

Garbage in, low-cost power out: pyrolysis may have the edge in converting solid wastes into energy Sept 26 29

Solid-waste processing discussed at AIChE meeting Nov 21 27

R**Railroads**

Arizona explosion raises more questions about tank car safety July 18 16
Canada's crippling rail strike clobbers chemicals Sept 5 14
Canadian strikes force Dow to cut production at Fort Saskatchewan, Alta. complex N Aug 29 7
Fertilizer producers bracing for rail car shortage N Oct 17 51
Fertilizer shippers are still having trouble getting rail cars N Oct 31 25
Freight rates see **Freight Rates**
GAT develops unitized tank-car train N Nov 21 49
Harkle sees an absolute shutdown of Northeast railroads by Thanksgiving, unless Congress comes up with a plan to save the region's bankrupt rail carriers by next month N Sept 19 10
Labor agreements, strikes see **Labor**
Penn Central, Aid for ailing line Aug 1 12
Penn Central shutdown opposed by ICC: chemical companies favor private ownership in rail reorganization Oct 10 14
Shoup-Adams Northeast rail restructure bill Oct 10 14
Goes to Senate Nov 21 18
Tank car leaking valve spills liquid chlorine in Greensburg, Pa. Sept 19 15
Ray, Earl — Harshaw Chemicals' new president: He knows what he wants, how to get it Sept 12 84

Rayon

Inventories are far below year-ago levels N Dec 12 41
Prices: soaring cotton prices benefit rayon N Aug 1 25

Reactors

AEC plans for "breeder" reactor plant near Oak Ridge, Tenn. R July 11 24
Breeder reactor program is moving forward N Aug 8 31
Gulf Oil will team up with a French group to push the HTGR N July 4 33
World's first commercial atomic breeder reactor in operation in Soviet Union N July 25 28
Reagents — Automated testing and FDA rules cut diagnostic reagent sales, but makers still expect steady growth Nov 21 54
Reciprocity — SOCOMA wants sector-by-sector reciprocity in new tariff deals N Sept 12 17

Recreational Vehicles

Moving market slows due to fuel shortage, feedstock supply problems, tight money Dec 19 20
Rohm & Haas' acrylic Plexiglas for recreational vehicles Sept 19 14

Recreational Vehicle Institute

"All-Industry Suppliers Show" Sept 19 14
Forecast for the industry Dec 19 20

Refining

Atlantic Richfield will boost capacity at Houston refinery R Nov 7 15
Atlantic Richfield's Philadelphia refinery R Nov 14 19
Australian refinery approval sought R July 25 20
California refinery and natural gas complex may be built near Carlsbad N Oct 17 13
Canada tax on crude may force cutbacks at some U.S. refineries Oct 3 21
Chemical companies reported considering construction of refineries to produce olefins and aromatics as import license fees make these projects attractive Sept 5 11
Cutbacks slated Nov 28 14
Eight oil firms hit with FTC complaint charging unlawful monopoly in the refining of crude oil July 25 19
Energy Corp. of Louisiana plans refinery at Terre Haute R July 25 20
Expansions may ease U.S. petroleum crisis July 11 20
Feedstocks see **Petrochemicals**
Fuel Desulfurization plans fuels refinery on Gulf Coast R Nov 28 18
Hawaiian Independent Refinery awards contract for refinery expansion to Ralph M. Parsons R Aug 22 19
Hess Oil awards contract to Liwin for refining units and off-sites for refinery complex at St. Croix, Virgin Islands R Oct 10 17
Iranian oil company and German oil companies sign a letter of understanding to study refinery at Buschir, Iran N Sept 12 68
Kerr-McGee Wynnewood, Okla. refinery expansion R July 25 20
Korea: National Iranian Oil turns down offer from Tejin to participate in refinery N Aug 1 29
Maine: \$450-million refinery at Sanford planned by three firms R Oct 31 15
Metropolitan Petroleum's Maine oil refinery plans: hearings Sept 12 25
Midwest nations seek foreign partners for

joint-venture refineries, major petrochemical projects, despite tensions of war Nov 7 10
Mobil will shut East Chicago, Ind., refinery Dec 5 22
Monsanto's Chocolate Bayou complex: will it get a large refinery by '77? Dec 12 13
Olympic Refineries plans refinery in New Hampshire R Dec 12 15
Puerto Rico plans superport and refineries. Considering three sites for complex (map) Aug 22 15
EDA recommends superport to be built on west coast R Aug 29 13
Governor picks Mona Island as site for complex Sept 26 17
Shell will attempt to build in N.J. the refinery it was barred from constructing in Del. two years ago July 4 8
Shortage: even if oil were available, there is not enough refinery capacity to meet U.S. demand for several years Dec 19 20
Texaco will boost capacity of Louisiana refinery N Aug 1 5
Utilities are ready to help Midwest countries build U.S. refineries N July 18 9
Refractory Materials — Chemical Week 300 (tables) Aug 22-32 Nov 21 42
Refrigeration — LNG: frozen food warehouse that will be kept cold by LNG rather than conventional refrigerants, will be built near Tokyo Sept 12 73

Research

China's research is focused on high polymer chemistry N July 18 31
"Comprehensive Inorganic Chemistry" five-volume compendium N Sept 12 68
Dow "stewardship" plan tailors products to environmental needs Oct 3 45
Environmental concerns have had serious impact on industrial R&D N July 18 31
Exxon restructuring its technology organization in an effort to remove barriers between research and engineering and manufacturing and marketing Aug 15 29
EXXON's coal research includes gasification and liquefaction processes N Sept 12 67
Hydrogen from water gets financial backing from SoCal Edison and Northeast Utilities N Nov 14 38
Japanese develop new method of making ultrafine metal powder Aug 29 33
MHD: U.S. and Russia will cooperate on MHD energy research N Aug 1 35
NCI's technique may make quick screening of chemicals for carcinogenicity possible N Sept 12 68
National Science Board report, "Science Indicators 1972" Sept 26 33
Nixon wants to double government energy research spending N July 4 5
R&D chiefs in chemical companies are better paid, have more say in corporate affairs, survey shows (chart) Sept 26 33
R&D spending, coal and environmental projects will get more federal funds N Oct 17 65
Sweden approves investment-write-off program for R&D costs N July 11 46
Synthetic juvenile hormones research could open the way to biological controls for insects N Sept 12 68
U.S. outlays for R&D work on energy systems to be increased. Can \$20-billion R&D push defuse energy crisis? (chart & table) Dec 19 15
West Coast forest fires put flame-retardant chemicals to the test Sept 12 65
Zoecon Corp.'s Altoid SR-10 California conducts tests of growth-regulating mosquito larvae Aug 29 33

Resins

ABS see **Plastics**
Cast made of PP, glass fiber and resin Aug 15 23
Chelating resins seek new materials in water purification field Aug 8 33
Coca-Cola bottle uses Du Pont's Surlin ionomer resin as coating N July 18 20
Dart resin patent invalid, court reverses lower-court ruling and clears Du Pont to sell the resins Oct 3 21
Epoxies: Delaware State Highway Dept. uses solvent-free epoxy resin system to resurface the Brandywine Creek bridge to stop skid hazard Sept 12 29
Georgia-Pacific plans thermosetting resin plant at Ukiah, Calif. R Oct 3 24
Goodyear Tire & Rubber plants hydrocarbon resin expansion at Beaumont, Tex. Oct 3 24
Iranian units planned N July 4 36
Monsanto expands Lopac capacity; Coca-Cola testing product Oct 24 13
Monsanto's plant at Antwerp, Belgium R Oct 24 29
Netherlands: Du Pont expands acetal resin plant at Dordrecht R Oct 17 62
Output of synthetic resins up — SPI data (table) Oct 3 19
Patents International Affiliates licenses Japan Maize to make a variety of resins based on a new process using starch N Nov 14 38
Phenolic resin shortage will lead to cutback in plywood output Nov 21 19

Prices	N	Dec	19	29
Reichhold requests price boosts	N	Sept	26	21
Rohm and Haas acryloid resins plant in Louisville, Ky. onstream	R	July	11	24
Styrene-allyl alcohol resins prices	N	Aug	15	21
UC will stop making conventional epoxy resins by the end of '74 at Marietta, Ga. and Bound Brook, N.J.	N	Nov	14	27
Reverse Osmosis				
Du Pont develops r-o unit, B-10, that can remove 98.5% of salts from sea water	N	Sept	19	39
Green Bay Packaging paper industry's first application of r-o to waste water treatment	N	Sept	19	39
Rhodesia — Chrome: Two U.S. diplomats called for sanctions	N	Sept	12	18
Rice — New plant will convert rice hulls into cement	N	Dec	12	51
Rohr, William — Gulf Oil Chemicals' president: Camera bulb focuses on diversification	N	Aug	15	40
Roofing — Glass-fiber fabrics: Sheerfill, new idea in roofing	N	Dec	5	23
Rosin — Supplies short	N	Oct	3	26
Rubber				
Chemical Week 300 (tables) Aug 22-31	N	Nov	21	41
Copolymer Rubber will expand styrene-butadiene rubber at Baton Rouge, La.	R	Nov	7	15
Cost of Living Council hears the case for price hikes	N	Sept	26	14
CLC trims requested boosts	N	Oct	10	14
Du Pont's Nordel unit at Beaumont, Tex. shut by fire damage	N	July	11	41
General Tire-Firestone patent on oil-extended rubber dispute court upholds validity of GT patent, but rules Firestone does not have to pay royalties	N	Nov	28	46
Makers agree with EPA's effluent guidelines, but believe estimates are too low	N	Nov	14	37
Michelin will build plant at Anderson, S.C.	R	Sept	5	16
Nippon Polymers to study feasibility of butyl rubber plant in Japan	R	Aug	22	50
Prices N Nov 28-33	N	Dec	19	29
Synthetic rubber output up — data from RMA	N	Oct	3	19
Tennis ball made of rubber and additives	N	Sept	19	21
Uniray discontinues latex and synthetic rubber production at one of its Naugatuck, Conn. units	R	Nov	21	20
Uniray plans rubber chemicals complex in Brazil	R	Aug	22	49
Rubber Manufacturers Assn. — Synthetic rubber output up	N	Oct	3	19
Rumania				
ISC deal: Rumanian plastics for ISC technology	N	Dec	19	13
Petroleum-based protein plant at Jassy	N	Aug	8	20
Russia				
Caustic soda plant deal with Italians	N	Oct	10	31
Chemical output is rising	N	Nov	14	21
Courtaulds contracts to supply triacetate fiber plant	N	Sept	26	25
Ethylene pipeline from Leninavars, Hungary, to Kalush, Russia, starts to start this month	R	July	4	35
Fertilizer and sulfate wood pulp plant bought from Sweden	N	Aug	22	47
Fluoride in water helps protect against radiation	N	Sept	19	39
Lumum signs contract with USSR for turn-key acetic acid plant	N	Nov	28	11
MHD-U.S. and U.S.S.R. will cooperate on MHD energy research	N	Aug	1	35
Monsanto and Lumum negotiating with USSR for construction of styrene complex	N	Dec	5	31
Monsanto signs computer applications agreement	N	Oct	17	65
Montedison will build seven chemical plants in USSR and will take payment partly in products from those plants	N	July	18	27
Montedison will get ammonia in payment	N	July	25	24
Most-favored-nation tariff status for Russia is dead	N	Oct	10	10
Oxy's fertilizer complex financing is nearing completion	N	Sept	19	9
Petrochemical products and process industries equipment and technology are beginning to find markets in the U.S.	N	July	4	34
Siberian natural gas development: Soviets up ante for U.S. and Japan	N	Nov	21	13
Styrene: Lithen to build unit at Scherchenko, sell some output in U.S.	N	Dec	19	18
World's first commercial atomic breeder reactor in operation	N	July	25	28
Ruthenium — Catalyst shows solid commercial potential in cutting nitrogen oxide emissions in dual converter auto systems	N	Sept	5	31

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Saccharin — Sherwin-Williams to hike saccharin capacity about 25%

Nov 28 18

Safety

Aerosol cold medications, sprays see Drugs

Agrico Chemical's South Pierce, Fla. phosphoric acid tank rupture	Aug	29	10
Artificial turfs are no safety problem, government agency says	Oct	31	15
Asbestos: FDA launches crackdown on asbestos contamination of food, beverages and drugs	Oct	10	10
Automobiles see Automobiles			
Borden's Columbus Coated Fabrics Co. plant: cause of nerve disorders among workers remains mystery; MBK is the prime suspect	Oct	3	20
Bromine leaking from a tank causes evacuation of Adrian, Mich. residents	Sept	26	16
Consumer Product Safety Commission will regulate safety of chemical products	July	11	23
Cyanide barrels adrift after two ships collide in Gulf of Mexico	Sept	26	16
Detergents see Detergents			
Dow "stewardship" plan tailors products to environmental needs	Oct	3	45
Drugs see Drugs			
Explosions see Explosions			
Fires see Fires			
Flammability standards: Consumer Product Safety Comm. will file criminal charges against a children's apparel manufacturer over flammability standards	Sept	12	18
Flammability standards: urethane makers face product-misrepresentation lawsuit over flammability	Oct	10	16
Food additives see Food Additives			
Glowall tires for safer night bike rides	Aug	8	12
Hazardous consumer products list from CPSC includes chemicals among leading items	Oct	3	24
Job-safety legislation see Law			
Lead-in-gasoline see Gasoline			
Lead-in-paint see Paint			
LNG storage tank disaster at Staten Island, N.Y.: three companies cited for alleged violation of job-safety standards	July	25	28
NTSB would be replaced by independent National Agency for Transportation under legislation introduced by Sen. Magnuson	Sept	19	10
NIOSH recommends job health standards for toluene diisocyanate, chromic acid and toluene	Aug	8	9
NIOSH standards: producers and users of trichloroethylene and inorganic mercury will incur additional costs if proposed standards are accepted	Sept	12	23
Nuclear safety see Atomic Power			
OSHA			
Emergency standards: Nine organophosphorus pesticides will be deleted from the list of 21	July	4	5
When the safety sleuth comes to call — letters	July	11	5
Carcinogenic chemicals: proposed permit system is expected shortly	July	11	33
Carcinogenic chemicals: OSHA wants to make temporary standards for 14 carcinogens permanent; standards dealing with worker exposure to 12 pesticides runs into trouble	July	25	18
Carcinogenic chemicals: permanent standards for 14 controversial carcinogens used in industry proposed	Aug	1	6
Carcinogenic chemicals: EPA hearings will cover a much broader range of issues than OSHA	Aug	22	10
Fisher Controls computer program can speed up the job of selecting the right valves to satisfy government standards on plant noise	Aug	29	32
Carcinogen rules near	Sept	19	18
Carcinogens standards challenged by Dry Color Mfrs. Assn. and Aerojet-General may go to Supreme Court	Oct	3	20
Small chemical plants struggle to meet OSHA's industrial hygiene rules	Oct	3	39
Carcinogenic chemicals: Philadelphia court vacates standards for ethyleneimine and 3,3-dichlorobenzidine	Oct	17	19
Carcinogen crackdown	Nov	14	13
Several major chemicals are in line for new job exposure safety standards	Nov	21	17
Pipeline safety see Piping			
Pollution control see Air Pollution; Environment; Water Pollution			
Railroad tank car leaking white spills liquid chlorine in Greensburg, Pa.	Sept	19	15
Smithsonian Institution's Sea-Link accident being investigated	July	4	8
Stauffer Chemical's Scanger plant oleum solution leak causes evacuations in Carson, Calif.	Aug	29	10
Salt — New type of table salt, called Lite Salt, contains equal parts of potassium chloride and sodium chloride	Oct	10	35
Saudi Arabia			
Arab oil embargo see Petroleum			
U.S. joint venture projects under discussion	Oct	10	10
Utilities are ready to help Mideast countries build U.S. refineries	July	18	9
Schmidt, Alexander, new FDA commissioner: His goal is public-industry togetherness	Aug	1	40
Scotland — ICI nylon plant at Ardser shut	Oct	17	62

Scrubbers

AMAX Climax Div.'s Langeloth, Pa. molybdenum smelter to get Lewis horizontal lime scrubber	N	Sept	5	31
Lime scrubber puts stack gas in a cage	N	Sept	12	62
Wet-scrubber system at Duquesne Light closed because of leakage	N	Oct	24	35

Sealants

Adhesive & Sealant Council's 1st international conference — "The Adhesive and Sealant Industry — Its World Problems, Standards and Technology"	N	Nov	14	33
Construction sealants market; GE introduces Silglaze and Silpruf	N	Oct	3	26

Selling

Bribery allegations in connection with sale of chemicals to municipal officials lead to injunctions in Wisconsin, may involve officials in Illinois	N	Nov	7	11
Chemical industry sales will expand 7-8% next year says Du Pont's Stuckey	N	Dec	12	9
"Dodge Product Potentials" service provides information for developing inventory control, for sales forecasting and for making sales staffs more effective	N	Nov	14	34
MC/B's "Customer Keeper" program: Big help on small lots	N	Dec	12	44
Selling see also Marketing; see also specific chemical, commodity etc.				
Sewage Treatment — Chlorine shortages cause some municipal waste plants to shut down, others are trying substitutes	N	Nov	28	45

Shale Oil

Brazil's Petrosbras marketing fuel products refined from shale oil	N	July	25	28
Canada: Oil from tar sand projects — Alberta grants Syncrude Canada permission to build extraction plant at Mildred Lake	N	Nov	21	35
Commercial-scale testing of shale oil production has the green light from the Interior Dept.	N	Dec	5	25
Leasing: Projects get a qualified boost from Interior Dept.'s final environmental impact statement on oil shale leasing	N	Sept	5	9
Leasing: Shale scramble starts	N	Sept	12	21
"Oil Shale Availability" report	N	July	11	53
Paraho process testing project: Sun Oil joins	N	Oct	10	9
Atlantic Richfield and Phillips Petroleum join 13 other firms to demonstrate the process	N	Nov	21	20
Shapiro, Irving — Du Pont's vice-chairman of the board	N	July	25	15
Managing No. 1 chemical company is a two-man job	N	Aug	29	27

Shipping

Cyanide barrels adrift as two ships collide in Gulf of Mexico	N	Sept	26	16
Federal government may ban some foreign ships from U.S. ports	N	Dec	19	14
Hazardous materials: MCA at sea over rules	N	Sept	12	23
Multivalled plastic bags tackle tough chemical packaging problems	N	July	11	39
Offshore superports are the key to Gulf Coast petrochemical growth, says Gulf's Tostengard	N	July	18	9
Plant sites 74 report, John M. Winton	N	Oct	17	44
Shipping costs (charts & table)	N	July	25	18
Puerto Rico plans superport and refineries	N	Aug	22	15
Considering three sites for superport complex (map)	N	Aug	29	13
Economic Develop. Administration recommends superport to be built on west coast	N	Aug	29	13
Governor picks Mona Island as site for superport and refinery complex	N	Sept	26	17
Seaboard Coast Line's Rockport, Fla. terminal: phosphate rock shipments moving again	N	Aug	1	25
Shipment gains will continue: Commerce Dept.'s "U.S. Industrial Outlook" (table)	N	Oct	31	12
Soviet tanker, Fedor Poletav, unloads crude petroleum at Getty's Delaware City refinery	N	Aug	15	31
Tankers (2) run aground off Puerto Rico coast	N	Sept	5	15
Waterways carry more chemicals (table)	N	Nov	21	18

Shipping, see also Barges; Railroads; Tankers; Trucks

Silica

Cabot expanding fused silica plant at Tuscola, Ill.	N	Sept	26	17
Degussa plans fused silica unit near Mobile, Ala.	N	Dec	5	22
Italy: Terni plans PPG-licensed silica pigments plant near Rome	N	Oct	17	13

Silicon

Dow Corning will cut its shipments of polycrystalline silicon	N	Dec	19	29
Kawachi Beryco expansion program at Springfield, Ore., plant	N	Nov	28	18
Reynolds Metals up capacity with new furnace at Sheffield, Ala.	N	Oct	3	24
Silicones — Construction sealant market; GE introduces Silglaze and Silpruf	N	Oct	3	26
Silver — Prices	N	Aug	15	21

Singapore

Nylon yarn plant for Singapore Nylon Corp. to be built by Zimmer	R	Aug	29	30
Polyester fiber plant	R	Aug	1	11
Sumitomo plans ethylene-based complex	R	Aug	15	26
Soap — Cost of Living Council grants price hikes		Oct	10	14

Society of the Plastics Industry

Statistical report	N	Aug	1	25
Synthetic resin output up (table)	R	Oct	3	19
Thermoplastics are setting production records	N	Aug	29	15

Soda Ash

Alkali: Expansion in natural soda ash may be key to abundant alkali		Dec	19	23
Prices	N	Dec	19	29

Sodium Bisulfite

Allied plans unit at El Segundo, Calif.	R	July	11	24
Virginia Chemicals' liquid SB is available from Bucks, Ala. plant	N	Oct	24	20

Sodium Chloride

Dow's Dallesport, Wash., plant may change product mix	N	Oct	31	6
Hooker's installation at Taft, La.: second-stage completion scheduled	R	Oct	10	17
Sodium Hypochlorite — On-site generation of SH as chlorine substitute	N	Nov	28	45
Sodium Sulfate — Prices	N	Nov	21	49
Sodium Tripolyphosphate — Prices in Britain	N	July	18	20

Solvents

Aerosol decongestants containing 1,1,1-trichloroethane, and a potential ban on its use in solvents	N	July	18	20
Methyl n-butyl ketone (MBK) is the prime suspect of cause of nerve ailment affecting workers at Borden's Columbus Coated Fabrics Co. plant		Oct	3	20
Shortages and allocations have the paint industry in a bind	N	Nov	14	31
Sorbitol — Hand lotions with sorbitol-derived materials	Oct	10	32	
Sound waves to drill for oil — Hungarian development	N	Aug	1	36

South Vietnam

Industrialization project	Aug	15	26	
Urea supplies hard to get	N	Aug	1	26

Soybeans

Government working out a plan to control exports of soybeans, soybean meal and SBO		July	4	7
Staley Mfg.'s Decatur, Ill. soybean processing complex expansion	R	Dec	12	15

Space Technology

Skylab has chemical ups, downs	Aug	15	16	
Thiokol wins contract from NASA to develop the huge solid-fuel rocket engines for the space shuttle	N	Nov	28	11

Spain

Ammonium phosphate fertilizer plant at Amnaco's Malaga works	R	Aug	1	11
Empresa Nacional Petroleros de Tarragona awards ethylene plant contracts	R	July	25	20
Methanol plant contract to Davy Powergas	R	Aug	15	27
Methylamines and derivatives joint venture of ICI and UEE Rio Tinto	R	Aug	15	27
Syntex plans pharmaceutical unit	R	Oct	3	24
Titanium dioxide: Du Pont will probably drop plans for plant as Titanon pushes ahead with plans for unit	N	July	25	24
Trade mission to Spain and Italy being formed	July	11	36	
Union Quimica del Sur to build methylamines and derivatives plant	R	Aug	22	50
Seeks permission to build plant	R	Oct	3	33

Sports

Artificial turfs are no safety problem, government agency says	Oct	31	15	
Tennis: Superstars help chemicals make match points	Sept	19	21	
Spot removers: Spot-Wipe, a disposable pad saturated with cleaning fluid	Aug	1	23	
Stabilizers — Organo-tin stabilizer prices	N	Sept	26	21

Standardization

Canada's TGMA standardizing sizes for shampoos, skin creams and lotions	July	11	40	
Flammability standards see Safety				
Pollution standards see Air Pollution; Environment; Water Pollution				
Stanford University — Research on replacing noble metals with cheaper ones in catalysts	N	Aug	15	31

Starch

Gniff process uses starch to decompose plastic materials Sept 5-13	Dec	12	42	
Patents International Affiliates licenses Japan Maize to make a variety of resins based on a new process using starch	N	Nov	14	38
Steam, geothermal see Geothermal				

Steel

Chemical Week 300 (tables) Aug 22-34	Nov	21	44	
Direct reduction: low-cost way to get into the steel business	Sept	5	32	
Tennis racquets	Sept	19	23	
Stapan, F. Quinn — Stapan Chemical's new president: He started on sales trips early in life	Nov	14	48	
Stenlants — ENT-61585 may be used to combat the boll weevil	N	Oct	10	10
Steroids — Syntex plans expansions at Freeport, Bahamas	R	Oct	3	24
Steuer, H. Guyford — NSF director not expected to exercise much clout as White House science advisor	N	Aug	1	6

Stockpiles

Molybdenum: GSA okays stockpile release	N	Nov	28	33
Stockpile opening up for morphine-containing opium gum and metals	Dec	12	14	
Storage — LNG storage tank disaster at Staten Island, N.Y.: three companies cited for alleged violation of job-safety standards	N	July	25	28

Styrene

Canadian prices boosted again	N	July	11	41
Japan: Mitsubishi Petrochemical plans styrene monomer plant at Kashima	R	Aug	29	30
Monomer prices in Britain	N	July	18	20
Production N Aug 15-21, N Aug 29-15	N	Oct	17	51
Russia: Liven to build a unit, sell some output to U.S.	Dec	19	18	
Russia: Monsanto and Lumms negotiating for construction of complex	Dec	5	31	
Shortages and allocations have the paint industry in a bind	Nov	14	31	
Submarines — Southwestern Institution's Sealink accident being investigated	July	4	8	
Sulfonation — Stapan will build SO ₂ sulfonation unit at Milledale, Ill.	R	Nov	21	20

Sulfur

Canadian producers charged with dumping in U.S.	Aug	1	9	
Dumping duties in doubt	Oct	31	9	
Desulfurization see Desulfurization				
Output running about 3% ahead of last year reports USBM	N	Aug	1	25
Petrofina's third recovery unit at Port Arthur, Tex., refinery	R	Sept	12	29
Prices	N	Aug	8	19
Producers' stocks drop N July 11-41	N	Sept	26	21
Sludge disposal: big hurdle to success for stack-gas scrubbing	Dec	12	45	
Stauffer plans Crystex insoluble sulfur plant	R	Aug	15	18

Sulfur Dioxide

British Oxygen purchases Albright & Wilson's sulfur dioxide and related chemicals business	R	Aug	29	13
EPA says few SO ₂ control process will be ready to meet '75 standards	July	4	32	
Sulfur Dioxide see also Air Pollution; Desulfurization				

Sulfuric Acid

Australian Fertilizers recommissions unit at Port Kembla	R	Aug	22	50
Baker to add plant at Idaho unit	R	July	25	20
Canadian plant at Calgary, Alta., using Monsanto process planned	R	Sept	12	55
EPA emission standards see Air Pollution				
Indian plant, using Bulgarian technology to be built	R	Oct	24	29
Israeli plant	R	Sept	19	33
Korean plant at Seokpo, S. Korea	R	Sept	12	55
Texasgulf plans expansion of its operations in N.C.	N	Sept	19	23
Suntan Lotion — Swimmers and skiers make suntan products year-round market	July	25	35	
Superconductivity — Niobium-germanium compound superconducts at record high temperatures produced by Westinghouse	R	Sept	19	39
Surface Active Agents — Prices	N	Nov	7	61
Surfactants — Prices	N	Sept	26	21

Sweden

Akulfur, joint venture aluminum fluoride plant	R	July	11	36
Fertilizer and sulfate wood pulp plant sold to Russia	Aug	22	47	
Investment write-off program approved for R&D costs	N	July	11	46

Sweeteners

Abbott asks FDA to reverse the '69-'70 ban on cyclamates	Nov	21	15	
Ajinomoto and Searle's Augusta, Ga., plant to produce Searle's new artificial sweetener, aspartame R Aug 15-18	Nov	14	22	
Cyclamates' tests fail to support FDA claim that cyclamates are carcinogenic: will FDA lift ban?	July	11	23	
'Natural' is not always 'safe' — Viewpoint	Nov	28	5	
Prospects for a cyclamate comeback are brightening: international symposium on synthetic sweeteners	N	Nov	14	11
Shenwin-Williams to hike saccharin capacity about 25%	Nov	28	48	

Synthesis — UC studying ethylene glycol-from-synthesis gas plant	N	Dec	5	36
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Synthetic Organic Chemical Mfrs. Assn.

Wants sector-by-sector reciprocity in new tariff deals	N	Sept	12	17
Will seek more meaningful limits on Presidential power to cut tariffs	N	Aug	15	9
Switzerland — Hoffman-La Roche plans ascorbic acid unit at Sisseln complex	N	Aug	29	15

T**Taiwan see China, Nationalist**

Taic — Pfizer develops analytical technique for measuring the asbestos impurities of talc		Aug	1	34
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Tankers

Chemical tankers (2) run aground off Puerto Rican coast	Sept	5	15	
Freighter "Key Largo" catches fire and goes aground near Phoenix, La.; fears of TEL cargo causes evacuations, but cargo was never loaded	Sept	12	25	
Soviet Fedor Poletaev unloads crude petroleum at Getty's Delaware City refinery	N	Aug	15	31
Tanks — LNG storage tank disaster at Staten Island, N.Y.: three companies cited for alleged violation of job-safety standards	N	July	25	28
Tantalum Oxide — Prices	N	Aug	8	19
Tape — Bicycle tire with glowing sidewalls for safer night bike rides	Aug	8	12	

Tariffs

ASP: partial victory for CPI	Oct	3	20	
ASP into new snag	Aug	8	14	
Benzenoid imports soar as tariffs tumble (charts)	Sept	19	17	
Canadian petrochemical producers will get a tariff break if Parliament okays Turner's proposals	Oct	31	6	
Dawson, David named the industry's Senior Trade Advisor by five trade groups	Oct	10	13	
GAF: tariff ruling could block adjustment assistance for dye workers	Dec	5	21	
GATT: SOCOMA wants sector-by-sector reciprocity in new tariff deals	N	Sept	12	17
GATT gets going	Sept	19	17	
International trade talks: CPI worry — will trade negotiators heed the chemical experts?	July	11	22	
Nixon Round trade negotiations: Nontariff barriers may prove the most difficult topic	Dec	12	9	
Russia: Most-favored-nation tariff status is dead	Oct	10	10	
Trade bill				
SOCMA will seek more meaningful limits on Presidential power to cut tariffs	N	Aug	15	9
Prospects for House passage of a trade bill by early October are good	Sept	12	17	
Still poses substantial threats of increased foreign competition	Oct	3	20	
Trade bill in trouble	Nov	7	11	
Trade bill may be a casualty of the Middle East crisis	N	Nov	28	11
Trade bill rolling	Dec	12	16	
Objections to the trade bill passed by the House	N	Dec	19	14

Taxation

Canada tax on crude may force cutbacks at some U.S. refineries	Oct	3	21	
FRB's Burns proposes plan to boost corporate and individual taxes and later rebate them	Sept	19	10	
Japan's STA requests added incentives to sell technology	Oct	10	21	
Louisiana's Edwards pushes through measures to keep oil and gas output in the state	Dec	12	12	
Netherlands' plant construction tax will curb industrial expansion	Nov	28	41	
Pennsylvania House cuts corporate net income taxes	Nov	28	11	
Plant sites '74 report John M. Winton				
State by state comparison of corporate income, sales, vehicle fuel, franchise and severance taxes (table)	Oct	17	34	
Sweden approves investment write-off program for R&D costs	N	July	11	46

Technology

Exxon restructuring its technology organization in an effort to remove barriers between research and engineering, and manufacturing and marketing	Aug	15	29	
Japan's STA requests added incentives to sell technology	Oct	10	21	
National Science Board report, "Science Indicators 1972"	Sept	26	33	

Tennessee Valley Authority

Breeder reactor program is moving forward	N	Aug	8	31
Bulk-blending conference cautions about the dangers of projecting a speedup in the growth of fertilizer demand	Aug	15	15	
Tennis: Superstars help chemicals make match points	Sept	19	21	

Terephthalic Acid

Du Pont purchases a "technical disclosure" of Maruzen Oil's process to make TPA by oxidation of para-xylene	N	Nov	28	46
Polyester fiber boom touches off major expansions in DMT, TPA (chart)		Aug	22	45

Terminals

Conoco will open tanker terminal for ethylene on the Gulf Coast	R	Nov	14	19
Offshore superports are the key to Gulf Coast petrochemical growth, says Gulf's Tostengard	N	July	18	9
Puerto Rico plans superport and refineries	N	July	25	18
Considering three sites for superport complex (map)		Aug	22	15
Economic Development Administration recommends superport to be built on west coast	R	Aug	29	13
Governor picks Mona Island as site	R	Sept	26	17
Seaboard Coast Line's Rockport, Fla. terminal phosphate shipments moving again	N	Aug	1	25
Testing — Pfizer develops analytical techniques for measuring the asbestos impurities of talc		Aug	1	34

Tetraethyl Lead

Ethyl's Gottwald: Company will thrive even if U.S. bans use of TEL		Sept	12	24
Freighter "Key Largo" catches fire and goes aground near Phoenix, La.; fears of TEL cargo causes evacuations, but cargo was never loaded		Sept	12	25

Textiles

Du Pont asks price increases on fibers, fabrics and finishes	N	Sept	26	21
Glass-fiber fabrics: Sheerill, new idea in roofing		Dec	5	23
Japanese producers searching U.S. for chemicals in short supply in Japan	N	July	25	22
Labor roundup: Onella Knitting Mills strike over, five nonunion mills in S.C. delay wage increases at request of CLC	R	Aug	1	12
Teyn plans to triple textile capacity overseas	N	Oct	3	34
Trade bill see Tariffs — Trade bill				
Worldwide boom in textile goods spins prosperity for fiber firms (chart)		July	11	18

Thailand

Polyester joint venture	R	Oct	3	33
Thai Chemical Fiber orders polyester fiber plant from Zimmer	R	Aug	29	30
Thermoplastics — Owens-Illinois increasing capacity at St. Charles, Ill., and Brookville, Pa.		Oct	24	16
Thiodipropionate — Prices	N	Sept	26	21

Tires

Armstrong Rubber buys Gates' tire plant at Nashville, Tenn.; building tire plant at Clinton, Tenn.	N	Oct	3	15
Autos: Small car will from chemical sales		Dec	5	27
Chemical Week 300 (tables) Aug 22-31		Nov	21	41
Cost of Living Council trims requested boosts		Oct	10	14
Du Pont will give Kevlar "strong" image in bid for tire markets		Aug	1	12
Glowall tires for safer night bike rides		Aug	8	12
Michelin will build steel-belted radial tires plant in Greenville, S.C.	R	Sept	5	16
SIR may join the ranks of tire producers to build a tire plant near Naples	N	July	4	36
Titanates — NL Industries will double capacity at Niagara Falls, N.Y.	R	Oct	31	15

Titanium Dioxide

Black market in chemicals is emerging rapidly	N	Nov	7	9
Common Market Comm. will study pollution from TiO ₂	N	Sept	19	32
Du Pont's plant near Brunswick, Ga., hits a snag as a result of state objections to DP's proposals for disposing of plant wastes by deep-well injections		Sept	5	15
Montedison will continue discharging wastes into sea from titanium dioxide plant at Scarlino as discharge permit is renewed	N	Aug	29	35
Production at Scarlino is curtailed as local magistrate confiscates barges		Oct	3	43
Shortage: Glidden's Baltimore plant strike tightens supply		Sept	26	15
Shortages and allocations have the paint industry in a bind		Nov	14	31
Spain: Du Pont will probably drop plans for plant as Titano pushes ahead with plans for unit	N	July	25	24
Tobatts, Hiroshi — Sanyo Chemical's president. He's starting a new career at age 57		Dec	19	52
Towel Goods Manufacturers Assn. (Canada) — Standardizing sizes for shampoos, skin creams and lotions		July	11	40

Toiletries

Canada's TGMA standardizing sizes for shampoos, skin creams and lotions		July	11	40
Chemical Week 300 (tables) Aug 22-30		Nov	21	40

Toluene

Motor fuel demand creates massive bind for users of benzene, toluene and xylene		Aug	8	11
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NACD members afraid they won't be able to continue supplying their customers . . .	Dec	12	11
NIOSH recommends job health standards . N	Aug	8	9

Toluene Diisocyanate

Bayer breaks ground for its second big chemical complex; this one, at Bruns-butte	N	Oct	10	31
NIOSH recommends job health standards	N	Aug	8	9

Trade Secrets

Kewanee Oil-Harshaw Chemical employees suit may go to Supreme Court	Oct	3	20
Court will decide whether a company can protect trade secrets without patenting them	Oct	17	14
Stauffer exposes scheme to sell Monsanto trade secrets	Oct	24	16
Trademarks — Du Pont's Fiber B designated Kevlar; PRD-49 will be dubbed Kevlar 49	July	25	22
Train, Russell: As EPA boss, he'll get chance to enforce laws he helped to draft	Aug	1	10
Ready to take on polluters and conserva- tionists	Sept	26	40

Training

Designers: Engineering contractors push recruiting and training efforts to solve growing shortage of chemical plant design personnel		Nov	28	43
Programs in sampling emissions for air pollutants gain in popularity as government tightens standards		Sept	12	59

Transportation

NTSB would be replaced by independent National Agency for Transportation under legislation introduced by Sen. Magnuson	N	Sept	19	10
Plant sites '74 report: John M. Winton (charts & tables)		Oct	17	44
Transportation see also Aeronautics, Barges, Railroads, Shipping, Trucks				

Trees

Bronx Zoo Lion Island's trees to get protective coats of glass-fiber-reinforced plastic "bark"		Oct	10	17
DDT ban has resulted in heavy damage to trees, HAC says	N	Oct	31	36
Florida agricultural specialists begin injecting palm trees with oxytetracycline to combat "lethal yellowing" disease		Oct	10	35
Texize's Prolong, preserver for Christmas trees and flowers		Dec	19	32
Tinacetate — Court orders to supply U.S.S.R. with fiber plant	N	Sept	26	25

Trichloroethane

Aerosol cough treatments: FDA orders manufacturers to submit list of products containing trichloroethane	N	Aug	22	10
Aerosol decongestants containing 1,1,1-trichloroethane recalled, and a potential ban on its use in aerosols	N	July	18	20
Trichloroethylene — Producers and users of TCE and inorganic mercury will incur additional costs if standards proposed by NIOSH are accepted		Sept	12	23
Trinidad — Grace plans its second ammonia plant in partnership with the government at Point Lisas		Dec	12	13
Tritium — Dow: tritium from Rocky Flats nuclear plant contaminates Colorado water supply		Oct	10	16
Trucks — Bulk chemicals truck shipments may get another rate boost	N	Aug	1	5

Turkey

Nylon 6 plant to be built at Edirne	R	Oct	3	33
Petkim proposes petrochemical complex at Alaga refinery on the Aegean Sea	N	July	4	36
Turpentine — Supplies	N	Oct	3	26

U

Underwater Mining — Underwater sled will map minerals on the oceans' floors		Aug	1	33
Ungerer, Paul — Degussa's chairman: He prefers reading Goethe to making gold		Aug	22	64

U.S. Army

Chemical defoliant used in Florida without EPA clearance		Nov	7	16
Nerve gas will not be tested in open air	N	Dec	5	14
Plans to produce a binary nerve gas, consisting of commercially available chemicals, challenged by Congressional subcommittee		Oct	10	13

U.S. Bureau of Mines

Methane from coal mines could double U.S. gas reserves		Sept	19	40
Oil from wood wastes pilot plant	N	Oct	17	65
Underground gasification of coal showing promising results		Aug	29	35
Sulfur: producers' stocks drop	N	July	11	41
Sulfur output running ahead of last year	N	Aug	1	25

U.S. Department of the Interior

Commercial-scale testing of shale oil production has the green light		Dec	5	25
Taking steps to resolve the contradictions between Nixon's energy message and the old import regulations		Aug	29	11
United States Enrichment Corporation — Creation of an independent federal corporation to control and expand the uranium enrichment industry proposed		Sept	12	23
U.S. Tariff Commission — Jonnard, Amison — new chief: Chemical insider goes to Washington		Oct	17	77
University of California — Smog's causes to be studied	N	Dec	5	36

University of Georgia

Researchers find a way to make liquid aspirin		Aug	1	23
Underwater sled will map minerals on the oceans' floors		Aug	1	33
University of Pennsylvania — Industrial use of enzymes can be stimulated as a result of a means of recovering or using the controlling element, or coenzyme	N	Aug	1	36
University of Toronto — Photodegradation processes for plastics		Dec	12	42

Uranium

Consortium, Eurodif, will build a giant gaseous diffusion plant	N	Dec	5	14
Enrichment: Creation of an independent federal corporation to control and expand the industry proposed		Sept	12	23
Enrichment: GE and Exxon Nuclear team up for a joint study of uranium enrichment with focus on gas centrifuge technology	N	July	4	33
Enrichment: Japan may participate in US plants		Aug	8	31
Enrichment: Reynolds' gaseous-diffusion uranium enrichment plant near Buffalo, Wyo., abandoned because of inability to line up partners		Oct	10	16
National Petroleum Council's report urges stepped-up uranium exploration	N	Sept	19	40
Uranium Recovery will install uranium separation unit in Grace's phosphoric acid plant at Bartow, Fla.	N	Aug	1	35

Urea

AgriCo plans plant at Blytheville, Ark.	N	Nov	14	27
China to get Japanese ammonia-urea plant		Sept	19	32
Grace plans plant at Memphis, Tenn.	R	July	25	20
Kellogg sells plants to China	N	Dec	5	31
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South Vietnam finding supplies hard to get	N	Aug	1	26

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Essex plans urethanes and specialty chemical facility, primarily to service the auto industry, at Hillsdale, Mich.	R	Dec	5	22
Fire-retardant urethane output will jump	N	Nov	21	49
GM studies urethane fenders and doors for cars	N	Sept	19	40
Makers face product-misrepresentation lawsuit over flammability		Oct	10	16
Raw materials prices	N	Dec	12	41
UC will up urethane polyol capacity at South Charleston, W.Va., plant	N	Nov	21	13
Urethane foam catalyst prices	N	Sept	26	21

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Valves — Fisher Controls computer program can speed up the job of selecting the right valves to satisfy government standards on plant noise		Aug	29	32
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Venezuela				
Exxon's fluidized iron ore reduction process (FIOR) will be put to work in joint venture	N	Aug	29	35
FIOR de Venezuela will use Exxon's process		Sept	5	32
LOPE plant at El Tablazo planned by Polimeros del Lago	R	Oct	17	62
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FDA orders high dosages of vitamins A and D be sold by prescription only; plans restrictions on many other vitamin products and food supplements		Aug	8	13
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Bristol-Meyers - Antibiotics settlement; Five major drug companies will shell out \$39.6 million	Dec	24	9
Companies cleared of criminal charges	Dec	12	14
Dry Ban television ads, false and misleading rules; judge, FTC seeks broad ad remedy	Dec	19	21
British Columbia Cellulose - Celanese completes sale of Columbia Cellulose	July	11	24
British Industrial Plastics - Iranian resin units planned	July	4	36
British Oxygen - Industrial gases plant in Brazil	Aug	1	11
Purchases Albright & Wilson's sulfur dioxide and related chemicals business	Aug	29	13
British Petroleum - PVA and VA copolymer emulsion units at Barry, Wales, sold to Vinyl Products	Oct	24	26
Protein-from-oil: more plants in Europe considered	Oct	24	26
Protein project in Italy jeopardized by rising costs	Oct	17	57
Styrene monomer prices	July	18	20
BP Chemicals - British chemicals: waiting for the thaw	Oct	3	30
Ethylene cracker possible joint venture with ICI and Shell	Sept	19	31
Ethylene plant at Baglan Bay still not fully operational	July	18	27
Ethylene plants: giant crackers based on North Sea gas considered	July	11	37
Fifteen plants shut down because of technical and labor problems	Dec	5	31
Isopropyl alcohol plant at Baglan Bay on stream	Oct	17	62
Oil-based protein plants	Aug	8	20
VCM plant at Baglan Bay, South Wales, still operating on limited scale	Aug	1	15
July 11-41	Oct	24	16
Brown & Root - Contractors for ARCO plant	July	11	15
"North Star" natural gas deal signed with Soviets	Dec	12	10
Brown Co. - Rebuilding its paper machines to increase productivity in its mills at Berlin, Gorham, N.H.	July	25	20
Burmah Oil - Australian refinery approval sought	Oct	10	17
Burton Plastics - Bronx Zoo Lion Island's trees to get protective coats of glass-fiber-reinforced plastic "bark"	Oct	10	17
Butcher & Singer - Dukiewicz at ACS says oil from tar sand and gas from coal will determine ceiling prices of oil, methanol and natural gas	Nov	14	11

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CoF Chimie - Government authorizes importing and refining of crude oil for petrochemical complex at Carling	July	11	37
Sales and earnings, '72 second-half	July	4	34
CF Industries - Justice Dept. will file antitrust suit challenging CFI proposed purchase of Atlantic Richfield's fertilizer manufacturing units at Fort Madison, Ia.	July	18	16

CSR Chemicals Pty. Ltd. - Australia's Red-cliff ethylene project goes to ICI-Alcoa	Nov	14	21
Mitsubishi consortium	Sept	26	17
Cabot Corp. - Cab-O-Sil Div. expansion	Sept	12	27
fumed silica plant at Tuscola, Ill.	Nov	7	15
Cadillac Associates - Executives demand analyses	Nov	21	54
Cadillac Plastic & Chemical - Department to market products related to job safety seat up	Oct	24	35
Calbiochem - Diagnostic reagent business	Aug	8	31
Receives investigational new-drug status for hydrazine sulfate for clinical tests on cancer patients	July	25	28
Calspan Corp. - Pros and cons of recycling vs. use of virgin material study	Aug	1	9
Cameron Engineers - Designer of vertical relocator for Petrobras' plant	Aug	1	9
Bid stalled by suits, countersuits	Oct	3	15
Aug 8-15, Aug 15-18 Aug 22-16	Oct	17	24
Texasgulf's rising stock prices may block company's bid for control	Nov	28	16
Will say profits change Texasgulf stockholders views on tenders	Dec	12	9
CDC's next step - board representation	Aug	15	21
Settlement between the two companies	Sept	5	14
Canadian Cellulose - Strike at pulp mill near Prince, B.C. settled	Aug	8	16
Canadian Industries Ltd. - Canada's crippling rail strike clobbers chemicals	Nov	14	21
Sales and earnings, first-half '73	Sept	5	14
Nine-months '73	Aug	1	9
Canadian Superior Oil Ltd. - Canadian sulfur producers charged with dumping	Oct	31	9
Dumping duties in doubt	Oct	10	19
Canpotex Ltd. - Potash deal with India	Nov	7	61
Potash export contract with Japanese	Aug	1	25
Potash sold to Peking	July	18	25
Saskatchewan potash producers will boost output, says Roger Hatch	July	11	24
Carboline Co. - Magnesium oxychloride plaster provides cheap steel fireproofing	Sept	26	29
Carborundum Corp. - OCAW pact carries large wage increases	Nov	28	16
Torrax Systems unit for converting waste into energy tested at Buffalo, N.Y.	Aug	29	9
Wendel tells N.Y. security analysts "legislated markets" promise long-term growth	Sept	12	67
Caribbean Gulf Oil Refining - Puerto Rican gasoline producers protest price controls	Oct	10	9
Carpenter Technology - Gardner Cryogenics see under name	Sept	12	55
Carter Oil - Gasification project would utilize its Wyo. coal resources	Nov	14	22
Paraho's shale oil process being tested	Oct	10	9
Casselle Farwerke Mainkur - Sales and earnings, first-half '73	Nov	28	43
Co. - Formed by Cyanamid and Nishoku to supply catalyst to GM for auto emission control	Oct	17	19
N Aug 8-31	Aug	15	21
Catalytic Inc. - Engineering contractors push recruiting and training efforts to solve growing shortage of chemical plant design personnel	July	11	24
Celanese - Acetate fiber price hikes trimmed by CLC	Aug	29	9
Cellulose acetate production: no further cutback	Nov	7	61
Columbia Cellulose sale to British Columbia	Aug	22	41
Cellulose completed	Aug	22	41
Fiber Industries division's nylon 6/6 production not yet affected by shortage of cyclohexane	Aug	29	9
HDPE prices	Nov	7	61
Licenses ICI to make and market reinforced grades of thermoplastic polyester resin	Aug	22	41
Celanese Brazil - Nylon 6/6 capacity to be doubled	Aug	22	49
Celanese Canada - Sales and earnings, first-half '73	July	25	20
Celanese Coatings & Specialties Co. - Powder coatings for auto	Sept	5	21
Celanese Fibers Marketing Co. - Acetate filament yarn and flake shortage is looming	Aug	1	26
Female employee files a sex discrimination suit	Sept	12	27
Central Canada Potash - Potash prorationing, regulation controversy	Oct	31	25
Central Chemical Co. - Caustic-chlorine makers are switching to diaphragm cells in the wake of the discovery of mercury contaminated fish	July	18	31
Central Power & Light - Methanol-for-fuel to be used at south Texas generating stations	Sept	19	9
Central Soya Co. - Bellevue, O., soybean processing complex to add a food-grade lecithin unit	Oct	10	17
Ceres Land - Recycled manure will be used as protein-rich feed for cattle	Sept	19	16
Cerro Corp. - Copper smelter refinery complex at Pine Bluff, Ark., planned	Sept	5	16
Peru threatens to take over mining operations	Sept	5	9

Certain-teed Products — Reinforced-glass-fiber materials plant near Wichita Falls, Tex. R	Oct	24	16	Cia. Petroquímica Camacari — Japanese investment in Brazil N	Sept	12	53	Consolidation Coal Co. — Cresap, W.Va. plant using CSF process to make oil from coal may be reactivated N	Aug	22	55
Champion International — Expansions Report to N.Y. Security Analysts on capital expenditures, sales, prices, etc. R	Dec	12	10	Cia. Siderurgica Hime — Industrial gases plant in Brazil R	Aug	1	11	Methanation process to convert coal into synthetic fuel will be tested at Rapid City, S.D. plant N	Oct	31	36
Charter Co. — SNG plant considered R	Sept	26	18	Cia. Vale do Rio Doce — Japanese-Brazilian cellulose unit N	Sept	12	53	Old Ben Coal plans plant to reduce the sulfur content of coal, provide a middle distillate liquid fuel N	Nov	28	46
Chase Chemical — Newark, N.J., plant explosion, one killed, 13 injured R	Oct	31	15	Ciba-Geigy — Acquisition of Orbiter's honeycomb structures and rigid foam businesses N	Sept	12	29	Consulores Andinos Asociados — Technology for formaldehyde plant in Lima R	Sept	12	55
Chatterm Drug & Chemical — Special dividend R	Nov	21	20	Anthraquinone process to be commercialized N	Sept	5	31	Container Corp. of America — Buys Rexham's Hazelwood, Mo., folding carton plant R	July	18	16
Chem Systems — Amoco will use maleic-from-n-butane process in plant to be built at Joliet, Ill. R	Sept	12	67	Bond offering R	Sept	12	55	Strike shuts Fernandina, Beach, Fla. plant R	Sept	19	19
Chemistry Minerals — Tantalum oxide prices N	Aug	8	19	Labor unions will have the right to know what chemicals are produced and used at plants where they represent workers if a recent arbitrator ruling, involving C-G becomes a precedent N	Dec	12	14	Strike ends R	Sept	26	17
Chemco — Bribery allegations in connection with sale of chemicals to municipal officials lead to injunctions in Wisconsin N	Nov	7	11	Navy's "Shamu", underwater testing vehicle, may open new marine markets for epoxy-reinforced glass fiber N	July	25	20	Cook Paint & Varnish — Urethane makers face product-misrepresentation lawsuit over flammability N	Oct	10	16
Chemtron Corp. — Antimony oxide market (chart) R	July	18	21	Price-fixing under investigation in West Germany N	Aug	22	47	Copea-Petroquímica de Amidas — Caprolactam plant planned in Brazil N	Oct	3	34
Chemicals Group's v-p L. David Moore: He's taking do-it-yourself route to growth. Dividend increase R	Sept	5	40	St. Gabriel, La. herbicide plant institutes a modified 3-day work schedule for shift workers N	Oct	24	13	Copolymer Rubber & Chemical — Baton Rouge, La., styrene-butadiene rubber expansion R	Nov	7	15
Sales and earnings third-quarter discussed by Gallagher before Chicago financial analysts R	Nov	21	20	Warms Cranston, R.I., chemical intermediates plant may have to shut down at least one week each month next year N	Nov	21	16	Copper Range — Copper prices R	Dec	19	19
Chemical Exchange — Acquiring plant at Baytown, Tex. from Borg-Warner's Marbon Div. and will produce hydrocarbon resin intermediates there R	Aug	29	13	Cie. Francaise d'Etudes et de Construction Technip — Bidding for ethylene-based complex in China N	Oct	3	34	Corco Inc. — Corrugated container plant near Columbus, O. R	Sept	19	19
Chemical Recapture Inc. — Recycling of wastes from steel-mill slag gases will be tried at Republic Steel's South Chicago plant N	Nov	21	25	Cie. Francaise des Petroles — ATO see under name N	Oct	3	34	Corenco Corp. — Schiavone & Sons tender offer for up to 130,000 shares okayed by N.Y. judge R	Aug	22	16
Chemicals & Phosphates Co. — Sulfuric acid plant in Israel R	Sept	19	33	Oil-based protein plant N	Aug	8	20	Coming Glass Works — Contracts with De-gussa and Johnson Matthey to supply ceramic substrates for use in Volkswagen autos R	Nov	21	20
Chemco — Agglomerating fluid-bed gasification process R	Dec	19	41	Citizens Service Cryogenics — Helium growth N	July	25	23	Machinable glass-ceramic N	Nov	21	25
Chemische Industrie AKU-Goodrich — Goodrich and Akzo negotiating the sale of the Dutch company's shares N	July	18	9	Cities Service Helix — Government goes to court to terminate helium contract N	July	25	23	Sales and earnings, '73 second-quarter R	July	4	10
Chemische Industrie Rimmond — Phenol boost at Rotterdam plant N	July	11	35	Cleary Petroleum — Acquired by Grace R	Nov	14	19	Coty — Peel-off facial masks uncover tidy new market for specialties N	Sept	12	77
Chemische Werke Huels AG — Butadiene plant using BASF process R	Oct	24	29	Cleveland-Cliffs Iron — Paraho's shale oil process being tested N	Oct	10	9	Courtaulds Ltd. — Acquisition of Monsanto's Lanis Ltd. R	Oct	31	30
Sales and earnings six months '73 R	Aug	22	49	Climax Molybdenum — Molybdenum use will up close to 20% this year N	Oct	31	25	Contracts to supply U.S.S.R. with triacetate fiber plant N	Sept	26	25
Chemithon Corp. — Institutional and industrial cleaners market R	Aug	22	51	Clinton Mills — Wage increase delayed at request of CLC R	Aug	1	12	Profit expected for six months ending Sept. 30 R	Aug	29	13
Chemold Corp. — Tennis ball manufacturer R	Sept	19	23	Coastal States Gas Producing Co. — Lo-Vaca Gathering Co. goes under court control as result of an agreement with Texas RR Comm. N	Oct	17	20	Sales and earnings first-half '73 R	Nov	21	35
Chemopetrol — Czechoslovakia's chemical industry building boom (map) R	Aug	1	27	Natural gas price hikes run into resistance. Revulco Pipeline files suit over gas contract N	July	4	10	Crawford & Russell — Ethylene recovery from refinery and coke-oven streams proposed N	Dec	19	39
Chemplex — Polyethylene, high- and low-density, prices N	Sept	26	21	Signs a consent decree with SEC settling civil complaint alleging fraud and disclosure violations R	Sept	19	19	Ethylene recovery process will be used by Exxon Chemical and Baton Rouge plant R	Aug	22	55
Chemply Chemical — Railroad tank car leaking valve spills liquid chlorine in Greensburg, Pa. R	Sept	19	15	Texaco and Coastal States Gas cancel their interrelated purchases contract settling antitrust suit N	Nov	28	15	Crescent Plastics — Acquired by Rimar Mfg. R	Oct	24	16
Chemtex — Yugoslav polyester staple and filament plant based on U.S. technology R	Oct	24	9	Coca-Cola Co. — Bottles use Du Pont's Surlyn ionomer resin as coating N	July	18	20	Crompton & Knowles — Dye and chemical R&D capabilities expansion at Gibraltar, Pa. R	July	4	10
Chesebrough-Pond — Cleveland girl's apparently accidental death from inhaling Pertussin Night-Time Medicated Vaporizer under FDA investigation N	July	4	8	Lopac bottles to be test marketed extensively N	Oct	24	13	Crown Zellerbach — Acquires Amoco's plastic film plant at New Castle, Del. R	Nov	28	18
Diversification success revealed at security analysts presentation R	Oct	24	11	Colgate-Palmolive — Ajax spray. New sprays and gels challenge for room deodorant market N	July	18	23	Dividend raised R	Sept	26	17
Pertussin Night-Time Medicated Vaporizer spray ordered off the market R	July	11	24	Honshu Paper's dry-laid, nonwoven fiber process sought, disposable diapers is main market N	Sept	26	9	Sales and earnings, '73 second-quarter R	July	4	10
Vaseline Intensive Care lotion, hand lotion market R	Oct	10	32	Phosphate-content labels on detergent packages N	Aug	15	16	Curtiss-Wright — Makes tender offer for Airco shares R	Dec	12	15
Chessie System — Agrees to sell Elk Horn Coal stock to Ethix R	Dec	19	21	Coloroll, Ltd. — Griffin process for biodegradation of plastics employs starch N	Dec	12	42	Custom Chemicals — N.J. firms plead with Congressmen for allocations R	Dec	19	17
Chevron — Synthetic tennis court surfaces. Chevron Standard, Ltd. — Canadian sulfur producers charged with dumping R	Aug	1	9	Starches can be used to decompose plastic materials says British scientist Griffin N	Sept	5	13	Cutter Laboratories — Akzona discussing acquisition R	Nov	7	12
Chiba VCM — Agrees to pay fishermen for loss of fish from mercury contamination and to switch from mercury to diaphragm cells N	Aug	22	47	Columbia Cellulose — Celanese completes sale to British Columbia Celose R	July	11	24	Dividend suspended R	Oct	10	17
Chil Can Mfg. Corp. — Can that cools itself R	Sept	12	78	Combustion Engineering — Washington, Ga. kyanite operation capacity increase R	Sept	5	16	Rhinechem offers to purchase 100% of CL's Class A and B stock R	Dec	12	15
Chippis — Contract for aluminum plant in the Philippines R	Sept	19	33	Combustion Power Co. — Fluidized-bed process known as CPU-400 discussed by R. Vander Molen at AIChE meeting N	Nov	21	27	Stock trading suspended while cutter considers "more than one offer to acquire the company" R	Dec	5	22
Chisso Corp. — Fishermen set up blockade to force company to pay compensation for loss of fish due to mercury contamination. Shut down Minamata, Kyushu Island works N	Aug	22	47	Cominco — Studying feasibility of electrolytic zinc refinery near Teesside, England R	Sept	12	55	Cyanamid of Canada — Niagara Falls, Ont. calcium cyanamide plant to close R	Aug	22	19
Minamata starting up, including PVC plant N	Aug	29	29	Commercial Solvents — Buys shares of Northwest Nitro-Chemicals R	Nov	21	20	DSM — Arab oil cutbacks will hurt the Dutch chemical industry N	Nov	7	67
Fishermen who lost catches because of alleged mercury pollution will receive \$8.3 million R	Nov	28	18	Dividends R	Sept	5	16	Bogers, Willem, president: Economist plots chemical growth for old miner N	Oct	10	40
Chisso Petrochemical Corp. — Chiba Works shutdown ordered following fire of undetermined origin N	Oct	24	20	Commodities Research Unit Ltd. — Lead oversupply on the world market forecast N	Dec	12	41	Brazil's first caprolactam plant planned N	Oct	3	34
Chiyoda Chemical Engineering & Construction — Contracts for diaphragm cell plants N	July	18	31	Commonwealth Natural Gas — SNG plant at Chesapeake, Va., startup delayed because of oil embargo N	Nov	28	14	Nipiro Inc. see under name R	Dec	5	22
Licensing agreement with UC to develop an oil-to-ethylene cracking process R	Dec	5	18	Commonwealth Oil Refining — Agrees to buy condensate from Pertamina R	Oct	3	24	PP plant at Beek, Netherlands, planned R	Dec	12	19
UC's new crude oil cracking technology N	Nov	7	76	Puerto Rican gasoline producers protest price controls N	Aug	29	9	PP plant at Belgian complex R	Dec	12	19
Chiyoda International Corp. — Fluor-gas desulfurization demonstration unit on a coal-fired boiler R	Dec	5	38	Puerto Rican units planned with Nippon Zeon and Mitsubishi N.J. 25-24 N	Nov	14	22	Pushes for global prominence in petrochemicals N	Oct	10	29
Chrysler — Catalytic control of auto exhaust emissions faces an uncertain future N	Oct	24	35	Puerto Rico: dispute with Mobil over feedstock costs N	Oct	17	20	Synthetic lysine R	Oct	3	43
Honda's CVCC engine system's worldwide rights obtained N	Sept	26	9	Tanker Sabine runs aground off Puerto Rican coast R	Sept	5	15	Danippon Ink & Chemicals — Looking for U.S. partners N	Nov	14	22
74 models: smaller cars, a bigger CPI market R	Sept	5	21	Conoco Chemicals — Tanker terminal for ethylene on the Gulf Coast R	Nov	14	19	Petroleum-based protein plant at Jassy, Rumania R	Aug	8	20
Pelletized catalytic converters abandoned. Strike settlement could set pattern for GM, Ford R	Sept	26	15	Consolidated Aluminum — Olm's aluminum business to be purchased N	Sept	26	9	Protein plants for China competition N	Sept	19	32
				Acquisition of Olm's aluminum business — a good deal for both N	Oct	3	18	Protein plants in Japan canceled as a result of protests by consumer activists R	Aug	8	20
				Consolidated Edison Co. — Electricity cost increases likely early next year N	Nov	7	9	Daniel International — Contract for Michelin's plants in S.C. R	Sept	5	16
				Offers to help Iran build a refinery in the U.S. to process its crude oil N	July	18	9	Dart Industries — Aztec Chemical Div. buys M&T's Apocot organic peroxide and perester business R	Dec	19	21
								Income: profits in specialties R	Aug	22	16
								Lancy Laboratories Div. ion-exchange recovery system for recycling phosphoric acid N	Sept	26	31
								Resene Polymers Div. — Hayman and Alberts will trade jobs for 8-12 months to prepare them for advancement within the company R	Sept	12	27
								Resin patent invalid; court reverses a lower-court ruling and clears Du Pont to sell			

resins	Oct	3	21	Texas Div. Jack Robertson, coordinator of energy conservation	Aug	8	27	Explosives market (chart)	Nov	21	51			
Stock dividend increased	R	Nov	14	19	Trifluoromethane from Rocky Flats nuclear plant contaminates Colorado water supply	Oct	10	16	Feedstocks: Shortage could throttle output at some CPI plants in '74	Nov	14	14		
Davy International — Buckley, John, chairman: He engineers gardens and acquisitions	Oct	3	55	Waste products as supplemental fuels	Nov	28	12	Glass-fiber fabrics: Sheerfill, new idea in roofing	Dec	5	23			
Davy Powergas — Contract for Spanish methanol plant	R	Aug	15	27	Windecord Eagle I: Dow-sponsored all-plastic airplane turns in fastest time in Powder Puff Derby	Aug	8	33	Heckert, Richard: He's still wearing Corfam shoes	N	Nov	7	84	
Design work for Uranium Recovery unit	R	Aug	1	36	Dow Chemical Europe — Arab oil cutbacks will hurt the Dutch chemical industry	N	Nov	7	67	Kevlar designated as trademark for Fiber B, PRD-49 will be dubbed Kevlar 49	N	July	25	22
Engineering contractors push recruiting and training efforts to solve growing shortage of chemical plant design personnel	Nov	28	43	Polystyrene joint venture with Organsko Kemiska in Yugoslavia	N	Sept	19	31	Kevlar will get "strong" image in bid for tire market	Aug	1	12		
Winkler process	Dec	19	41	West German exports continue to rise	N	Aug	1	29	McCoy: The system must give fair reading of nations' real output	Nov	21	15		
Deepsea Ventures, Inc. — Underwater sled will map minerals on the oceans' floors	Aug	1	33	West Germany: methyl chloride plant at Stade	R	Oct	24	29	Management realignment: Managing No. 1 chemical company is a two-man job, top team living Shapiro and Edward Kane	Aug	29	27		
Degussa — Antwerp methionine plant	July	11	35	West Germany: Stade chlorine unit protested by German citizens	N	July	18	9	Moore, G. Frank consultant manager for power	Aug	8	27		
Corning Glass to supply ceramic substrates for use in Volkswagen autos	R	Nov	21	20	Dow Stade's chlorine plant adjusts to life in countryside	Oct	17	67	73 plant and equipment expenditures	Sept	12	20		
Methionine plant and fused silica unit near Mobile, Ala., planned	R	Dec	5	22	Dow Chemical of Canada: Canada's chemical industry outlook is improving, says Boyd	July	4	36	NR-16 nitrile resin at Montague, Mich., capacity to be doubled	Oct	24	13		
Sales and earnings, '72-'73 high costs hurt	Aug	22	49	Canada's crippling rail strike clobbers chemicals	Sept	5	14	Neoprene, Treasury to impose dumping duties on imports from Japan. Prelude to price hike?	Nov	14	15			
Ungerer, Paul, chairman: He prefers reading Goethe to making gold	Aug	22	64	Ethane: UC Canada opposes exports proposed by Dome Petroleum and Dow	N	Sept	19	31	Nordel unit at Beaumont, Tex. shut by fire damage	N	July	11	41	
Denney, Frances Inc. — Peel-off facial masks uncover tidy new market for specialties	Sept	12	77	Ethylene plant at Fort Saskatchewan, Alta., plans confirmed; chlor-alkali units and styrene foam plant also planned	N	Nov	28	41	Nylon production trimmed by shortages of cyclohexane and caprolactam	Aug	29	9		
Detweiler — Unit discussing possibility of affiliation	R	Dec	5	22	Polyethylene plant at Samia, Ont., restarted after flash fire	R	July	11	36	Nylon staple plant at Uentrop fiber complex in Germany planned	R	Oct	31	30
Dexter — Dividends	R	Sept	5	16	Railroad strikes force production at Fort Saskatchewan, Alta. complex	N	Aug	29	7	Photographic products finishing plant in Shimizu, Japan planned	R	Sept	19	33
Diaclear Co. — Diatomaceous earth filter	Dec	5	40	Samia, Ont. ammonia plant may be put back into production	Dec	19	13	Photographic products price hike bid turned down by CLC	Oct	17	19			
Diamond International — Pulp tray for meat	Nov	14	16	SOAP: UC Canada may replace Dow as a participant in the project N Sept 5-23	Oct	24	29	Price hike gets go-ahead from CLC	Dec	5	21			
Diamond Shamrock Chemical — Alternate fuel systems	Nov	28	12	Syrene prices boosted again	N	July	11	41	Polyester filament yarn, staple and tow shipments will be trimmed about 10% N	Nov	14	27		
Anhydrous caustic soda unit at Painesville, O., closed	July	4	10	Dow Corning — Ciba-Laniers for outdoor storage	Aug	15	23	Prices increases asked on eight broad product lines	Sept	26	21			
Chelating resins seek new markets in water purification field	Aug	8	33	Dimethyl silicone fluids prices	Dec	12	41	Protein process will be developed in joint venture with Rankis Hovis McDougall Ltd.	Oct	17	65			
Institutional and industrial cleaners market	Aug	22	51	Polycrystalline silicon shipments cut	Dec	19	29	Purchases a "technical disclosure" of Maruzen Oil's process to make TPA by oxidation of paraxylene	Nov	28	46			
Joint venture, Nippon Dainippon Shirokai, will manufacture and market Dacrometal and Zincro Metal coatings	R	Sept	5	16	Price increases	Dec	19	29	Reemay spunbonded polyester production plant at Old Hickory, Tenn., doubling capacity	R	July	4	10	
Potassium carbonate capacity at Muscle Shoals, Ala., plant will be increased	R	July	4	10	Sesalts, one-part low-modulus exterior building sealant	Oct	3	26	Reverse-osmosis unit, B-10, that can remove 98.5% of salts from sea water	Sept	19	39		
Dianovin Pharmaceutical — Misbranding conviction left standing	Oct	17	14	Dow-Uniquessa — Spanish TiO ₂ unit capacity expansion planned	N	July	25	24	Sales and earnings, third quarter estimates, '74 outlook	Oct	10	15		
Distillers Co. — Thiodomide settlement: company will pay \$50 million in compensation to victims	Aug	8	16	Dragoco — Sunscreen supplier	July	25	35	Shapiro at UN's public hearings on multinational companies	Sept	19	19			
Dixie Chemical Co. — Glycidyl methacrylate plant at Bayport Industrial Park near Houston dedicated	Nov	21	49	Dravo Corp. — Blaw-Knox Chemical Plants Div. — AMAX Climax Div.'s Langeloth, Pa. molybdenum smelter to get Lewis horizontal lime scrubber	Sept	5	31	Spain will probably be dropped as site for titanium dioxide plant as Titano pushes ahead with plans for unit	July	25	24			
Dome Petroleum — Ethane: UC Canada opposes exports proposed by Dome Petroleum and Dow	N	Sept	19	31	Lime scrubber puts stack gas in a cage	Sept	12	62	Synthetic lysine	N	Oct	3	43	
Douglas & Lomson — Recycling phosphoric acid from an aluminum finishing plant will be demonstrated at Cleveland, Miss. plant	N	Sept	26	31	Contract for methanation unit for Consolidation Coal	Oct	31	36	Titanium dioxide expansions planned	Sept	26	15		
Dow-Sadische — Caprolactam expansion at Freeport, Tex.	Oct	3	17	Contract to build ppG's coatings and resins production plant at Oak Creek, Wis.	Sept	12	29	Yugoslavian polyester staple and filament plant based on U.S. technology	Oct	24	9			
Caprolactam plant will be built on the Tombee River, north of Mobile, Ala.	Sept	12	17	European process for desulfurizing coke-oven gas is looking for work in the U.S.	Aug	15	31	Du Pont of Canada — Canada's copping rail strike clobbers chemicals	Sept	5	14			
Dow Chemical Co. — AEC's Rocky Flats, Colo. plant contract negotiations still up in the air	Aug	22	18	Drug Research Inc. — Bromine leaking from a tank causes evacuation of Adrian, Mich. residents	Sept	26	16	Nylon yarn plant at Kingston, Ont. will up capacity	July	11	36			
Australia: Nippon Zeon and Kanegafuchi to join Dow in venture	Aug	15	25	DuBois Chemicals — Institutional and industrial cleaners market	Aug	22	52	Polyester filament plant at Coteau du Lac, Canada, planned	N	Nov	28	41		
Australian petrochemical complex competition heats up	Oct	10	31	Duisburger Kupferhütte — Hydrometallurgical process for extracting metals from acid-leached manganese nodules	Dec	5	36	Sales and earnings, first-half '73	R	Aug	8	16		
Bonds worth 80 million Swiss francs repayable in '84-'88, through a syndicate of Swiss banks to be issued	R	Sept	5	16	Dunlop — Tennis ball demand	Sept	19	21	Nine-months '73	N	Nov	14	21	
Chelating resins seek new markets in water purification field	Aug	8	33	Acrylic sheet market re-entered	Oct	10	15	SOAP project moving into high gear	R	Aug	1	26		
Chile may return petrochemical plants	Oct	3	34	Adiponitrile joint venture in France discussed with Rhone-Poulenc	N	July	25	24	UC Canada may replace Dow as participant N Sept 5-23	R	Oct	24	29	
Petrodow's control may be returned, but government aims at increasing ownership	N	Oct	17	57	Aromatic polyamide resin, engineering plastic, developed	Sept	26	31	Du Pont (Nederland) — Acetal resin plant at Dordrecht expanded	R	Oct	17	62	
"Co-op designer training program"	Nov	28	43	Brazilian acquisitions, E. & Co. Inc.: 45% of Sargema Industria Quimica, 40% of Isocianatos da Bahia	N	Aug	1	5	Duquesne Light Co. — Philips Power's wet-scrubber system closed because of leakage	N	Oct	24	35	
Dallesport, Wash., plant may change the product mix	Oct	31	6	Brazilian investments being raised to \$210 million	N	Aug	1	5	Duralume — Synthetic log market	Dec	19	30		
Ethylene amine capacity to be increased at Freeport, Tex.	Oct	17	25	Bulked, continuous-filament nylon plant at Waynesboro, Va., planned	R	Nov	14	19	Dunron — High-pressure valves	Dec	5	38		
Gerstacker defends the Cost of Living Council's attack on chemical prices and profits	July	4	5	Chambers Works, Deepwater, N.J., explosion and fire shuts dyes and chemical operation	N	Oct	24	9	Duval Corp. — Canadian sulfur producers charged with dumping	Aug	1	9		
Gerstacker discusses campaign contributions	Aug	22	19	Chemical industry sales will expand 7.8% next year says R. Stuckey	Dec	12	9	Dynamit Nobel — Considering Iranian polyester plant	Oct	24	26			
Hamilton, Charles Eugene (Gene) Chemist's teaching plant tells how to fight pollution	July	25	32	Chlor-alkali plant to be built at Corpus Christi, Tex. fluorocarbon complex	Oct	3	19	Dimethyl terephthalate plant in Brazil	R	Aug	15	27		
Hand lotions: Touch of Sweden gets \$4-million send-off in bid for share of fast-growing skin-preservative market	Oct	10	32	Chlorine-caustic project at Altamira, Mexico, complex planned	N	Sept	5	23						
Herbicide plant at Midland, Mich.	R	July	4	10	Coca-Cola bottle uses DP's Surlin ionomer resin as coating	N	July	18	20					
Magnesium forecasts revived upward	R	Sept	12	32	Dacron polyester draw-textured feed yarns at Kingston, N.C., expansion	Aug	18	16	Early California Industries — Chemonics Div. — flame retardants light wildfires	Sept	12	65		
Magnesium oxide capacity at Freeport, Tex., boost	R	Oct	24	16	Dacron polyester fiber plant planned near Charleston, S.C.	Aug	22	19	Eastman Chemical Products Inc. — Fashion show, promotion effort built around tennis	Sept	19	23		
Michigan State Building and Construction Trades Council ordered to show cause why strikes at Dow construction projects should not be halted	Oct	10	17	Dart resin patent invalid; court reverses lower-court ruling and clears Du Pont to sell the resin	Oct	3	21	MBK is prime suspect in cause of nerve disorders affecting workers at Borden's Columbus Coated Fabrics Co. plant	Oct	3	20			
73 plant and equipment expenditures	Sept	12	20	Dawson, David will be chemical industry voice in talks with trade negotiators	Oct	10	13	Polyester fiber and filament capacity expansion slated for Carolina Eastman plant, Columbia, S.C.	N	Sept	26	9		
Oil prospecting joint project tied in with energy needs	Oct	31	6	Delaware River cleanup: waste treatment plant for Chambers Works, Deepwater, N.J. (map & table)	July	11	43	Polyester production cut because of glycol shortage	July	11	20			
Philips-Duphar chemical division purchase negotiations with Prigat called off	Aug	29	12	DMT and TPA expansions	Aug	22	45	Eco Plastics Ltd. — Photodegradation processes for plastics	Dec	12	42			
Plans to buy 525,000 of its common shares in the open market by the end of '74 to cover shares purchased by employees in '73	R	Dec	19	21	DMT plant planned at Old Hickory, Tenn. Dividends July 4-8	R	Nov	28	Economics Laboratory — Dividend raised	R	Sept	26	17	
Product stewardship plan tailors products to environmental needs	Oct	3	45	Elvacet PV homopolymer emulsions production and sales to be discontinued	R	Dec	5	22	Institutional and industrial cleaners market	Aug	22	51		
Sales and earnings, third-quarter estimates	Oct	17	22	Executive changes: Edward Kane, president, Irving Shapiro to vice-chairman of the board; Edward Jefferson, named senior v-p and member of the board	July	25	15*	Pushing into new I&I markets with new equipment and service packages	Nov	28	21			
									Edwards & Jones Ltd. — Mechanized filter press	Dec	5	38		

Elf/Arp — ATO see under name					
Oil-based protein plant	Aug	8	20		
Elk Horn Coal — Ethyl Corp. plans acquisition	Dec	19	21		
Emery Industries — Sales and earnings, '73 second-quarter	July	4	10		
Empresa Nacional de Petróleo — Production problems have snarled Chile's petrochemical output	Aug	15	25		
Empresa Nacional Petroleros de Tarragona — Ethylene plant contracts awarded	July	25	20		
Encres Dresse — Sun Chemical to buy an 80% interest	July	4	35		
Energy Corp. of Louisiana — Refinery at Terre Haute planned	July	25	20		
Engelhard Minerals & Chemicals — Electrolytic cells for hypochlorite production	Nov	28	45		
GM names company as catalyst supplier	Aug	29	12		
Eni — Protein project: BP's plans jeopardized by rising costs	Oct	17	57		
Enka Glanzstoff — Sales for first five months of '73	July	11	36		
Synthetic fiber output will be cut because of the Arab oil embargo	Dec	12	19		
Erte Finanzamento Industria Manufaturera — MCS see under name					
Envirogenics — Fresh water from geothermal brine from distillation unit	Aug	22	57		
Erco Industries — Long Harbor, Newfoundland, phosphorus plant strike scheduled	Aug	1	12		
Erdowerke Friala — Gulf to sell interest to Veba Chemie	Aug	22	49		
Ervin Co. — Plant site furnished for Vobo's plant at Chesapeake, Va.	Sept	19	9		
Essex Chemical — Crescent Plastics sold to Rimar Mfg.	Oct	24	16		
EPA's emission standards for sulfuric acid plants not unreasonable rules Washington court	Sept	28	10		
Urethane and specialty chemical facility, primarily to service the auto industry, planned at Hillsdale, Mich.	Dec	5	22		
Esso — Protein-from-petroleum activity	Aug	8	20		
Esso-BP — Bass Strait gas-processing plant to up capacity	Aug	22	50		
Esso Chemie — Ethylene capacity boost at plant near Cologne, W. Germany	Oct	31	30		
Esso Research & Engineering — Progress in immobilizing enzymes reported	Sept	5	13		
Estee Lauder — Peel-off facial masks uncover tidy new market for specialties	Sept	12	77		
Ethyl Corp. — Acquisition of Elk Horn Coal planned	Dec	19	21		
Asks French government for permission to buy 78% of Produits Chimiques du Sudore Seneva S.A.	July	25	20		
Freightliner "Key Largo" catches fire and goes aground near Phoenix, La.; fears of TEL cargo causes evacuations, but cargo was never loaded	Sept	12	25		
French government approval sought to purchase majority interest in Produits Chimiques du Sudore Seneva	Aug	22	50		
Sales and earnings outlook: Gottwald Jr. at N.Y. Society of Security Analysts	Sept	12	24		
Special dividend	Nov	7	15		
Ethyl Plastique — Process for Belgium LDPE plant	Oct	17	62		
Eumane (Europäische du Polyethylen) — New name for Marlex Kuhlmann Wyandotte	Aug	8	16		
Eurodif — Gaseous diffusion plant will be built	Dec	5	14		
Exxon — Coal research includes gasification process and liquefaction process	Sept	12	67		
Dividend boost	Aug	1	5		
FTC charges unilateral monopoly in the refining of crude oil	July	25	19		
Fluidized iron ore reduction process (FIOR) will be put to work in Venezuela in joint venture	Aug	29	35		
FIOR de Venezuela will use the process	Sept	5	32		
Nurel, Spanish nylon-6 venture, sold to Banco Industrial del Mediterraneo	Sept	26	25		
Oil problems	Dec	12	12		
Presentation to San Francisco analysts	Dec	12	13		
Propane price up 3¢/gal.	Sept	12	32		
Exxon Chemical U.S.A. — Allocations necessary because of Arab embargoes and production cutbacks	Nov	21	16		
Baton Rouge polyethylene plant will use ethylene recovery process developed by Crawford & Russell	Aug	22	55		
Energy-conservation projects	Nov	28	12		
Ethanol and ethyl ether plants at Baton Rouge, La. to close	Oct	17	51		
Para-xylene expansion at Baytown, Tex.	Aug	29	15		
Phthalate plasticizer expansion at Baton Rouge, La.	Oct	3	17		
PP brace	Oct	3	26		
PP prices	Aug	15	23		
Restructuring its technology organization in an effort to remove barriers between research and engineering, and manufacturing and marketing	Aug	15	29		
Exxon Nuclear Co. — Uranium enrichment: joint study with GE on gas centrifuge technology	July	4	33		

F
FMC Corp.—Detergent phosphates prices

Prices up for animal feed, fertilizer, dolomite and magnesium chloride	Oct	10	19		
Sales and earnings, second-quarter '73	July	18	14		
Third-quarter '73	Oct	17	22		
Sodium sulfate prices	Nov	21	49		
Synthetic fuel made from coal powers destroyer, U.S.S. Johnston	Nov	21	25		
FNT Industries — Tennis court nets	Sept	19	23		
Fairfield Associates — Dworkin preparing a report on international developments in single-cell protein	Aug	8	20		
Far East Oil Trading — Forms an engineering division with Pertamina and Japan Gasoline	Sept	19	33		
Farbenfabriken Bayer AG — Anthraquinone process will be commercialized	Sept	5	31		
Antwerp rubber chemicals plant	July	11	35		
Breaks ground for a second big chemical complex, this one, at Brunstette	Oct	10	31		
China trade to be boosted	July	11	16		
Exports: proud perch for the German eagle — report (chart)	Sept	5	25		
Grünewald, Herbert, new chairman in '74 when Kurt Hansen retires	Sept	5	23		
Hydrometallurgical process for extracting metals from acid-leached manganese nodules	Dec	5	36		
Makroform, joint venture, set up to extrude polycarbonate semifinished products	Sept	19	33		
Petrochemical complex delayed because of proximity to a bird sanctuary	Oct	17	68		
Price-fixing under investigation in West Germany	Aug	22	47		
Sales and earnings, first-half '73	Sept	5	23		
Third quarter '73	Nov	28	41		
Synthetic fiber operations in Iran expansion	Oct	24	26		
Synthetic fiber output will be cut because of the Arab oil embargo	Dec	12	19		
Farbwerke Hoechst AG — Exports: proud perch for the German eagle — report (chart)	Sept	5	25		
Oil-based protein plant	Aug	8	20		
Polypropylene expansions	Aug	1	26		
Process for polyester fiber plant in Singapore	Aug	1	11		
Sales and earnings — first-half '73	Nov	29	29		
Sales, earnings and outlook: Hoechst is bullish	Oct	10	30		
Nine-month '73	Nov	21	35		
Synthetic insulin moves a step nearer commercial reality	Nov	21	25		
U.S. expansions will be over \$300 million	Oct	24	9		
Ferguson, H.K. Co. — Armstrong on labor shortages	Dec	12	49		
Engineering contractors push recruiting and training efforts to solve growing shortage of chemical plant design personnel	Nov	28	43		
Ferro Corp. — Dividend boost	Aug	1	5		
Fiat — Contract with UOP to fill catalyst needs signed	Dec	19	21		
Fibreboard Corp. — Buys Rexham's Newark, N.Y., folding carton unit	July	18	16		
Filtrol — Buys PPG Industries' Columbia Cement div.	July	11	24		
Firestone Synthetic Fibers — Polyester plant starts up at Hopewell, Va.	Dec	12	15		
Firestone Tire & Rubber — Akron plant strike because of local grievances	Oct	31	15		
Antitrust suits pending	Aug	15	9		
Justice Dept. wants company to divest major part of its operations	Aug	22	18		
Nylon-6 production at Hopewell, Va., will be halted indefinitely	Dec	5	22		
Patent on oil-extended rubber dispute: Court upholds validity of General Tire patent, but rules Firestone does not have to pay royalties	Nov	28	46		
Sales and earnings: third-quarter '73	Aug	29	13		
Firma Carl Still — European process for desulfurizing coke-oven gas is looking for work in the U.S.	Aug	15	31		
Firmenich — Sunscreen supplier	July	25	35		
First Mississippi — Atlantic Richfield's fertilizer plant may be bought Aug 15-15	Sept	12	29		
Dividends	Nov	28	18		
First cash dividend on common stock since 1966	Sept	12	29		
First, Robert S. Inc. — Diagnostic reagent sales study	Nov	21	54		
Fish Engineering & Construction — "Co-op designer training program"	Nov	28	43		
Fisher Construction — Michigan State Building and Construction Trades Council ordered to show cause why strikes at Dow construction projects should not be halted	Oct	10	17		
Fisher Controls — Computer program can speed up the job of selecting the right valves to satisfy government standards on plant noise	Aug	29	32		
Fisiba Petroquímica — Japanese investment in Brazil	Sept	12	53		
Fisons — Fertilizer shortages could develop in the U.K. next year	Dec	12	19		
Marketing subsidiary in Copenhagen for Scandinavia to be formed	Sept	12	55		
Process for Ammoniac fertilizer plant	Aug	1	11		
Pinkette — Gypsum price still settled	July	25	20		
Urethane makers price product-misrepresentation lawsuit over flammability	Oct	10	16		
Florida Gas — SNG plant considered	Oct	3	24		
Florida Line — Freighters "Key Largo" catches fire and goes aground near Phoenix, La.	Sept	12	25		

Fluor Corp. — "Co-op designer training program"	Nov	28	43		
Sales and earnings, '73 second-quarter	July	4	10		
Fluor Utah — Arguedas discusses manpower market	Dec	12	49		
Food Additives Co. — Penh Amboy, N.J., charges co. polluted 25 city water supply wells with chemicals	Oct	10	17		
Footo Minerals — Dividend up	Oct	10	17		
Lithium products prices	Sept	5	19		
May resume dividend payments	Aug	1	5		
Offers to buy any of its 1,263,264 outstanding shares of convertible preferred stock	Aug	15	18		
Ford, Bacon & Davis — Engineering contractors push recruiting and training efforts to solve growing shortage of chemical plant design personnel	Nov	28	43		
Ford Motor — Asks approval of Morgan County gas field development to supply fuel for Avon Lake, O. plant	Aug	29	7		
How Ford's decision to make Honda engines will affect catalysts	July	25	20		
Glycidyl methacrylate plant near Houston, Tex. N Aug 22-41	Nov	14	22		
'74 models: smaller cars, a bigger CPI market	Sept	5	21		
Pelletized catalytic converters abandoned	Aug	22	17		
Small cars will trim chemical sales	Dec	5	27		
Foster Wheeler — "Co-op designer training program"	Nov	28	43		
Itai-proteins plant	Aug	8	20		
Forbort — pH measuring system	Dec	5	38		
Freeport Minerals — Sulfur prices	Aug	8	19		
Friedrich Uhde — Oil-based protein plant	Aug	8	20		
Polyester fiber plant for Singapore	Aug	1	11		
Fry, Lloyd A. Roofing — Koppers ends merger talks	Dec	5	22		
Fuel Desulfurization Co. — Fuels refinery on Gulf Coast planned	Nov	28	18		
Fuller, H.B. Co. — Acquires Victor Clausen & Associates	Sept	12	29		
Furukawa — Copper smelter in Korea	Nov	28	25		

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GAF Corp. — Amchem schedules expansion of Ambien herbicide at Texas City, Tex.	Oct	17	25		
Butanediol production will be boosted at Texas City, Tex., complex	Aug	15	18		
Filtration system	Dec	5	40		
Forms new subsidiary, GAF do Brazil-Industria e Commercial	Oct	24	29		
Interest rate boosts won't hurt CPI	July	18	14		
Tariff ruling could block adjustment assistance for dye workers	Dec	5	21		
Univul sunscreens	Oct	25	35		
GAF do Brasil-Industria e Commercial — Formed	July	24	29		
Gardner Cytogenics — Helium growth seen	July	25	23		
Garlock — Mechanical Rubber Div. — expansion joint	Dec	5	38		
Garrett Research & Development Co. — Finney describes process for producing "one barrel of oil per ton of refuse" at AICHE meeting	Nov	21	27		
Process for converting solid waste into liquid fuel	Sept	26	29		
Gates Rubber Co. — Tire plant at Nashville, Tenn. sold to Armstrong Rubber as company plans drop out of tire business	Oct	3	15		
Gearhart-Owen Industries — Military munitions plant in Cleburne, Tex., explosion	July	18	16		
Gelsenberg — Oil-based protein plant	Aug	8	20		
To study refinery at Buschir, Iran	Sept	12	68		
General American Transportation Corp. — Utilized tank-car train developed	Nov	21	49		
General Electric Co. — AEC orders lower operating temperatures at 10 nuclear power plants because of alleged hazards	Sept	5	15		
Construction sealants, Silglaze and Silpruf, introduced	Oct	3	26		
RCB spill near Kingston, Tenn. results in damage suits from local residents	July	11	20		
Refuse converted into energy in water-walled incinerator at Saugus, Mass. plant	Sept	26	29		
Steam iron, all-plastic made from Noryl	Nov	14	16		
Uranium enrichment: joint study with Exxon on gas centrifuge technology	July	4	33		
General Mills — Sales and earnings, '73 second-quarter	July	4	10		
General Motors — Aluminum auto parts: To sell more says Estes, prices must be cut	Nov	7	12		
Catalyst Co. to supply catalyst for auto emission control N Aug 8-31	Nov	14	22		
Catalysts: two more catalyst suppliers named, Engelhard and Air Products; UOP dropped	Aug	29	12		
Catalytic control of auto exhaust emissions faces an uncertain future	Oct	24	35		
'74 models: smaller cars, a bigger CPI market	Sept	5	21		
Pelletized catalytic converters still supported	Aug	22	17		
Research into the use of copper oxide instead of platinum-palladium combinations for the catalytic muffler	Aug	15	31		
Small cars will trim chemical sales	Dec	5	27		
Synthetic natural gas from coal may be made to supply foundry at Danville, Ill.	Nov	7	76		
Urethane fenders and doors for cars being					

General Plastics — Purchased by Polysar	R	Aug	1	11	Gasification Process to convert coal into gas	N	Nov	21	25	N.J. plant	R	Nov	14	19
General Technology — Report on inorganic chemicals, recommends that producers of 14 can achieve zero discharge by '77	Aug	15	33	Gulf Mineral Resources — Paraho's shale oil process being tested	N	Nov	14	38	Natural iron oxide and earth color plant at Hwassee, Va. to be sold to Hoover Color	R	Oct	17	25	
General Tire & Rubber — Dividend boost	N	Nov	28	46	Gulf Oil — Acquisition of United Nuclear's interest in Gulf United Nuclear Fuels Aug 15-16	R	Sept	26	17	Bought by Hoover	R	Dec	19	21
Patent on oil-extended rubber dispute; court upholds validity of GT patent, but rules Firestone does not have to pay royalties	N	Nov	28	46	Campaign contributions disclosed	R	Aug	22	19	PP capacity boost	R	July	4	7
Sales and earnings: third quarter estimates; 74 outlook	Oct	10	15	Erdowker Frisia interest to be sold to Veba Chemie	R	Aug	22	49	PP plant in Europe, possibly in Belgium planned Dec 5-20	N	Dec	12	19	
Tennis ball manufacturer	Sept	19	23	16	FTC charges unlawful monopoly in the refining of crude oil	July	25	19	Propylene suppliers for Bayport, Tex. plant will probably be Gulf and Amoco	July	11	21		
URW new three-year contract	R	July	18	16	FTC's Halverson's statement that some petroleum firms are understating natural gas reserves in reports to FCC denounced as "incorrect"	July	11	24	Sales and earnings, third quarter '73: capital expenditures	Oct	24	11		
Geo-Energy Systems Inc. — Van Husen downhole heat exchanger for geothermal brine	Aug	22	57		Protein-from-petroleum activity	Aug	8	20	Structural PP furniture frame	Nov	14	16		
Georgia-Pacific — Formaldehyde plant at Russellville, S.C. planned	R	Nov	7	15	Stinnes, Hugo AG will acquire several marketing subsidiaries and operations in Germany	R	Aug	22	49	Waste-disposal study on use of garbage to create energy	Sept	26	29	
Gypsum price still settled	R	July	25	20	Gulf Oil Canada — Canadian sulfur producers charged with dumping	Aug	1	9	Hess Oil Virgin Islands — Contract to Litwin for refining units and off-sales for refinery complex at St. Croix	R	Oct	10	17	
Plaquemine, La., chlorine-caustic addition	R	Nov	7	15	Dumping duties in doubt	Oct	31	9	Hitachi — China orders PE plant	R	Aug	29	30	
Report to L.A. analysts on sales, earnings, production	Sept	26	18	18	Gulf Oil Chemicals — Rohrer, William: Camera buff focuses on diversification	Aug	15	40	Hoechst Australia — PP plant N Aug 1-26	R	Oct	24	29	
Thermosetting resin and formaldehyde plant to be built at Ukiah, Calif.	R	Oct	3	24	Gulf Petroleum — Puerto Rican gasoline producers protest price controls	Aug	29	9	Sales and earnings in '72	R	July	4	35	
Getty Oil — Refinery run cutbacks	Nov	28	14	14	Gulf Power — Fuel-gas desulfurization demonstration unit on a coal-fired boiler	Dec	5	38	Hoechst Hellas Synthetische Harze — Formed to build synthetic resins plant at Erythra	R	Oct	24	29	
Soviet tanker, Fedor Poletae, unloads crude petroleum at Delaware City refinery	N	Aug	15	31	Gulf Refining — Offshore support are the key to Gulf Coast petrochemical growth, says Tostengard	N	July	18	9	Hoffman-La Roche — Ascorbic acid unit at Sarsen complex planned	N	Aug	29	15
Gibbs & Hill — Duquesne Light's wet-scrubber system closed because of leakage	Oct	24	35	35	Gulf Research & Development — Ruthenium catalyst shows solid commercial potential in cutting nitrogen oxide emissions in dual converter auto systems	N	Sept	5	31	Price-fixing under investigation in West Germany	N	Aug	22	47
Gibbs Oil — Refinery at Sanford, Me., planned	R	Oct	31	15	Gulf Resources & Chemical — Kellogg, Ida. 4 day strike settled	R	Nov	21	20	Valium and Librium sales will be restricted	N	Aug	22	10
Givaudan — Sunscreen supplier	R	July	25	35	Spartan Minerals may be acquired	N	Oct	31	6	Holly Corp. — Artesia, N.M. refinery expansion	July	11	20	
Glaumore — Spray 'N Vac no-scrub rug cleaner	Aug	29	25	25	Gulf United Nuclear Fuels — United Nuclear sells interest to Gulf Oil Aug 15-16	R	Sept	26	17	Honda Motors — Chrysler obtains worldwide rights for CVCC engine	N	Sept	26	9
Glausen, Victor & Associates — Acquired by H.B. Fuller Co.	Sept	12	29	29	Haifa Chemicals — Expansion approved	N	Nov	28	41	How Ford's decision to make Honda engines will affect catalysts	July	25	20	
Glaxo — Making a "very careful" study of the U.S. market	N	Aug	15	25	Halcon International — Landau speaks of a new way of making ethylene glycol from ethylene	N	Oct	10	21	Stratified-charge engine, adapted to a V-8 Chevrolet meets '75 standards	N	Oct	24	35
Gold Kist Inc. — Peanut-hull logs	Dec	19	30	30	Hammermill Paper — Sales and earnings, second-quarter '73: Duval reports to N.Y. security analysts	July	11	21	Sodium chlorate installation at Taft, La.: second-stage completion scheduled	R	Oct	10	17	
Golden West Mobile Homes — Moving market slows due to fuel shortage, feedstock supply problems, tight money	Dec	19	20	20	Tillflex Packaging Div. to be sold or liquidated	R	Sept	12	29	Hoover Color — Hercules' natural iron oxide and earth color plant at Hwassee, Va., bought R Oct 17-25	Dec	19	21	
Goodrich, B.F. Chemicals — Australia, international consortium considering ethylene dichloride complex	July	25	18	18	Hanover Planning Co. — UC negotiating natural gas intrastate contract	N	Nov	28	33	Houston Natural Gas — Acquisition of Northern Propane Gas' south Texas retail propane operations	Sept	19	15	
Goodrich Chemicals Industrie AKU-Goodrich: Goodrich negotiating the sale of shares	July	18	9	9	Harshaw Chemical — Antimony oxide market (chart)	July	18	21	Howmet — Aluminum prices	Dec	19	19		
Embargo exports of tallow and fatty acid chemicals derived from tallow, company asks government	N	Aug	8	9	Ray, Earl new president: He knows what he wants, how to get it	Sept	12	84	AKMA — Acquires 50% interest in Eastalco aluminum reduction plant at Frederick, Md.	Sept	12	24		
Feedstocks: shortage could throttle output at some CPI plants in '74	Nov	14	14	14	Hartz Mountain Products — Flea-control collar market	Sept	26	34	Hudson's Bay Oil & Gas Co. Ltd. — Canadian sulfur producers charged with dumping	Oct	31	9		
74 outlook	Oct	10	15	15	Hawaiian Independent Refinery — Capacity boost	July	11	20	Hull, R.O. & Co. — Lubrizol Corp. acquires shares	R	July	25	20	
Strike at Miami, Okla. plant	R	Aug	22	18	Contract for refinery expansion awarded to Ralph M. Parsons	Aug	22	19	Hunt, Philip A. Chemical — Dividend boost	R	July	18	16	
Thomas reports to N.Y. security analysts	Dec	19	18	18	Hedwin Corp. — Cubitainers for outdoor storage	Aug	15	23	Husky Industries — Wood-wax log	Dec	19	30		
Goodyear Tire & Rubber — Antitrust suits pending	N	Aug	15	9	Heidrick & Struggles Inc. — Environmental concerns have had serious impact on industrial R&D	July	18	31	Husky Oil — Kewanee Oil possible "affiliation" discussed	Nov	14	18		
Justice Dept. wants company to divest major part of its operations	Aug	22	18	18	Henly International Shipping — "California" tanker runs aground off Puerto Rican coast	Sept	5	15	Affiliation talks dropped	R	Dec	19	21	
Campaign contributions disclosed	Aug	22	19	19	Henkel Inc. — Acquires Kepec Chemical	July	4	34	McCulloch Oil's interest in Uinta oil field in Utah to be purchased	N	Oct	17	13	
Glowlit tires for safer night bike rides	Aug	8	12	12	Acquisition of Illinois Adhesives Products	Aug	15	23	Hydrojet Corp. — Pump for geothermal power extraction	Aug	22	57		
Hydrocarbon resin expansion at Beaumont, Tex.	Oct	3	24	24	Hercules Inc. — Bacchus, Utah, plant to double graphite fiber capacity	Nov	14	19	ICN Pharmaceuticals — Sales and earnings: third quarter estimates; '74 outlook	Oct	10	15		
Grace, W.R. & Co. — Acquisition of Clear Petroleum	Nov	14	19	19	Brown, Wiener new chairman of MCA: Can he put shine on chemicals' tarnished image?	July	18	40	Idemitsu Petrochemical — Ethylene unit at Tokuyama City explosion and fire, company considering cancelling plans for ethylene plant at Chiba	N	July	18	27	
Acquisition of Magness Petroleum	Dec	5	19	19	Copeland: The job is to get the most out of a barrel of oil	Aug	8	27	Producers come to the aid of Idemitsu	N	Aug	1	25	
Auto emission standards for oxides of nitrogen may be delayed due to testimony of converter suppliers	N	July	11	33	DMT and TPA expansions	Aug	22	45	Tokuyama resumes operations	N	Sept	5	23	
Davison Chemical Div. — Mobil suit against Grace involving three patents on zeolite catalysts: Court finds in favor of Mobil	Dec	5	20	20	Dividend boost	N	Aug	1	5	Illinois Adhesives Products — Acquired by Henkel	Dec	19	21	
Fertilizer prices will rise if controls are lifted	Oct	3	19	19	Drugs: joint venture with Montedison to market a group of Italian pharmaceutical products in the U.S. and Canada	Aug	8	14	Imperial Chemical Industries — Ammonia production down because of technical problems at Billingham, Teesside, natural-gas-led plants	Dec	5	31		
Forecast given to San Francisco analysts	Dec	12	13	13	European investments: sites considered for petrochemical complex	Aug	29	7	Australia: international consortium considering ethylene dichloride complex	July	25	18		
Outlook: presentation before security analysts	Sept	19	16	16	Explosives market boosted by energy crisis (chart)	Nov	21	51	Australian petrochemical complex competition heats up	Oct	10	31		
Phosphoric acid plant at Bartow, Fla., and urea plant at Memphis, Tenn. planned	Oct	10	12	12	Fluorescent colorants	Nov	14	16	Britain's Price Comm. approves price hikes to help cover increased raw-material and labor costs	N	Sept	26	25	
Immidad: second ammonia plant in partnership with the government planned	Dec	12	13	13	Hydrocarbon resin plant and integrated hydrogenation plant in Baton Rouge, La., planned	R	Oct	10	17	British chemicals: waiting for the thaw — report	Oct	3	30	
Uranium Recovery, will install uranium separation unit in phosphoric acid plant at Bartow, Fla.	N	Aug	1	35	Joint venture with Amerado-Hess to build a para-xylene plant in St. Croix, Virgin Islands	Oct	24	11	Carbon-impregnated synthetic fiber that conducts electricity developed	N	Nov	7	76	
Urea plant at Memphis, Tenn. planned	R	July	25	20	Kenvil, N.J., plant switches to a 4-day workweek	Dec	12	12	Celanese licenses ICI to make and market reinforced grades of thermoplastic polyester resin	N	Aug	22	41	
Great Lakes Carbon — Synthetic log market	Dec	19	30	30	Mesaout Chemical Works plant at Louisiana Mo., to be expanded	R	Oct	17	25	Cracker breakdown at Wilton, Teesside				
Great Lakes Chemical — Fire-retardant urethane output will jump	N	Nov	21	49	Natural hydroxyethyl cell: use unit at Paris,									
Sales and earnings, '73 second-quarter	Nov	4	10	10										
Great Northern Nekosia Corp. — Issues stock to acquire Bibler Brothers	Dec	12	10	10										
Green Bay Packaging Inc. — Paper industry's first application of reverse-osmosis to waste water treatment	Sept	19	39	39										
Greenwood Mills — Wage increase delayed at request of CLC	R	Aug	1	12										
Grimm, W.T. & Co. — Merger study: Fewer mergers emerged	Oct	17	21	21										
Mergers: Chemical companies bucked the downward trend in merger activity during first-half '73	July	18	9	9										
Groupeement Francaise des Proteines — Oil-based protein plant	Aug	8	20	20										
Gujarat State Fertilizer — Styrene plant and polystyrene unit contract awarded	R	Oct	24	29										
Gulf General Atomic Co. — High-temperature, gas-cooled nuclear reactor will be integrated with Stone & Webster's Solvay														

(N Newsletter, R Roundup.)

\$300 million	N	Oct	17	13
Joint venture, Shionogi Lilly	R	Oct	24	29
Sales and earnings: nine-months '73	N	Oct	17	13
Linde AG — Contract for Spanish ethylene plant	R	July	25	20
Lon Amour — Armatik Div. purchases	R	July	18	16
Liquichemica Biosintesi — Oil-based protein plant	R	Aug	8	20
Liquid Air — "Tonnage air-separation plant" planned in the Carolinas	R	Oct	10	17
Liquid Carbonic Canada — Air-separation plant at Contrecoeur, Que. planned	R	July	25	20
Little, Arthur D. Inc. — Plastics and synthetics manufacturers effluents study	R	Aug	15	33
Rubber makers agree with EPA's effluent guidelines, but believe estimates are too low	N	Nov	14	37
Litwin — Contract from Hess Oil for refining units and off-sites for refinery complex at St. Croix, Virgin Islands	R	Oct	10	17
Styrene unit in Russia to be built	R	Dec	19	18
Lone Star Gas — McCord tells security analysts that the removal of price controls would substantially boost their profits	N	Nov	7	15
Lone Star Industry — Plans higher cement prices	R	Dec	5	21
Lonza — Cetyl ethylmorpholinium deodorizer	R	July	18	23
Institutional and industrial cleaners market	R	Aug	22	51
Lo-Vaca Gathering Co. — Goes under court control as a result of an agreement between Coastal States and Texas RP Comm.	N	July	25	13
Natural gas price hikes run into resistance	N	Oct	17	20
Pennzoil Pipeline files suit over gas contract	R	July	4	10
Lubrizol Corp. — Acquires shares of R.O. Hull & Co.	R	July	25	20
Lukens Steel — Exxon's fluidized iron ore reduction process will be put to work in Venezuela in joint venture	N	Aug	29	35
FIOR de Venezuela will use Exxon's process	R	Sept	5	32
Lummus — Contractors for ARCO plant	R	Oct	24	16
Contracts with Soviet Union for turn-key acetic acid plant	R	Nov	28	11
"Co-op designer training program"	N	Nov	28	43
Russia: negotiations for construction of a styrene complex	N	Dec	5	31
Lummus of Canada — SOAP project will be rescaled N Aug 1-26	N	Sept	5	23
Lurgi — SLRN process	R	Sept	5	32
World's first SNG-from-coal plant: tests completed	N	Nov	21	25
Lurgi Mineraloeltechnik — Amoniac contract for fertilizer plant	R	Aug	1	11

M

M&T Chemicals — Antimony oxide market (chart)	R	July	18	21
Dart's Aztec Chemical Div. buys Apostol organic peroxide and perester business	R	Dec	19	21
Organo-in stabilizers and urethane foam catalysts price hikes	N	Sept	26	21
MCB Chemicals — Diagnostic reagent business	N	Nov	21	54
MCB Manufacturing Chemists — "Customer Keeper" program: Big help on small lots	R	Dec	12	44
MCS — Acquires 94% of Monted affiliate Alumatel	N	Sept	19	31
MacAndrews & Forbes — Camden, N.J., paperboard mill sold to Kaiser Gypsum	R	Sept	12	29
Magma Power — Geothermal steam: private property rules San Francisco judge	R	Nov	7	16
Magna Energy Inc. — Testing of new geothermal well scheduled	N	Aug	22	55
Magness Petroleum — Acquired by Grace	R	Dec	5	19
Makroform — Formed to extrude polycarbonate semfinished products	R	Sept	19	33
Malinkrodt Chemical — Acquisitions have played big part in recent sales growth. Thayer tells N.Y. analysts	R	Oct	31	10
Codene shortage seen as a result of halted opium production in Turkey	R	July	11	24
Opium supplies adequate	N	Aug	22	10
Raleigh, N.C. plant to make parenteral products	R	Aug	29	13
Washine Div. Lodi, N.J. plant explosion causes threat of ban on production	R	Aug	22	17
Lodi, N.J., to take "every legal step" to prohibit rebuilding of plant	R	Sept	12	29
Mallor International — Embury allegations in connection with sale of chemicals to municipal officials lead to injunctions in Wisconsin	R	Nov	7	11
Manul Gomma — Uniroyal acquires 50% interest	R	Aug	8	16
Marathon Oil — Detroit refinery struck	R	Nov	21	20
Marcelle Cosmetics Inc. — Peel-off facial masks uncover tidy new market for specialties	R	Sept	12	77
Marion Laboratories — Syntex purchases stock shares	R	Oct	3	24
Maries Kuhlmann — Antwerp projects	R	July	11	35
Marles Kuhlman Wyandotte — Renamed Eurane	R	Aug	8	16
Martin Marietta Aluminum — Aluminum prices	R	Dec	19	19
Martin Marietta Chemicals — LeVine, David, president: From missiles to chemicals — an easy glide	R	July	11	60

Manistee, Mich., plant to double penicillin capacity and increase magnesium chemicals capacity	R	July	18	16
Sulfur dyes production unit at Soddyco Div. plant in Charlotte, N.C.	R	Sept	5	16
Marubeni America — Nippon Oils and Marubeni Corp. form U.S. company to build glycidyl methacrylate plant	N	Nov	14	22
Marubeni Corp. — Brazilian joint venture N Aug 22-48	N	Sept	12	53
Forms U.S. company with Nippon Oils and Fats to build glycidyl methacrylate plant N Aug 22-41	N	Nov	14	22
Marubeni-lida — Polyester fibers venture in Brazil	R	Sept	12	53
Marstoln Electrolytic Systems — Formed; new source of metal anodes for chlor-alkali production	N	Nov	28	46
Maruzen Oil — Du Pont purchases a "technical disclosure" of process to make TPA by oxidation of para-xylene	N	Nov	28	46
Matthey Bishop — Auto emission standards for oxides of nitrogen may be delayed due to testimony of converter suppliers	N	July	11	33
Mayfair Mills — Wage increase delayed at request of CLC	R	Aug	1	12
McCulloch Oil — Husky Oil to purchase interest in Uinta oil field in Utah	N	Oct	17	13
McGraw-Hill Information Systems — Dodge Div. new service aims to help suppliers selling to the construction industry	N	Nov	14	34
McKee, Arthur G. & Co. — Engineering contractors push recruiting and training efforts to solve growing shortage of chemical plant design personnel	N	Nov	28	43
Exxon's fluidized iron ore reduction process will be put to work in Venezuela in joint venture	N	Aug	29	35
Contract for FIOR de Venezuela's plant using Exxon process	R	Sept	5	32
Shale oil price projection	R	July	11	53
Widman on labor shortages	R	Dec	12	49
McKinsey & Co. — Reorganization of De-gussa	R	Aug	22	49
McMoran Exploration — Oil prospecting joint project with Dow tied in with energy needs	N	Oct	31	6
Mead Corp. — Chemical recovery unit to increase yield from kraft pulping at Chillicothe, O.	R	Oct	10	17
Longview Lime Div. to be sold to Southern Industries	R	Aug	15	18
Meat Corp. — Pearized pigments for hand lotions	R	Oct	10	32
Merck & Co. — Cast made of PP, glass fiber and resin	R	Aug	15	23
Codene shortage seen as a result of halted opium production in Turkey	R	July	11	24
Dividend	R	Dec	5	22
OCAW pact carries large wage increases	R	July	11	24
Opium supplies adequate	N	Aug	22	10
Price-fixing under investigation in West Germany	N	Aug	22	47
Metropolitan Petroleum — Maine oil refinery plans: hearings	R	Sept	12	25
Michelin Tire — Rubber and tire plants to be built in Greenville and Anderson, S.C.	R	Sept	5	16
Midland-Ross — Acquires Vanguard Industries	R	Sept	19	19
Midrex process	R	Sept	5	32
Miles Laboratories — AlkaSeltzer: Nader's HRG calls for the product's ban and censure of Miles	R	Aug	8	15
Ames Div. — diagnostic reagent business	R	Nov	21	54
Miller-Morton — Sergeant's flea-control collar market	R	Sept	26	34
Minnesota Mining & Manufacturing Co. (3M) — Spray adhesives banned	R	Aug	29	11
Synthetic tennis court surfaces	R	Sept	19	21
Mississippi Chemical Corp. — Allocating fertilizer supplies "strictly on the basis of equity"	R	Oct	10	11
Nitrogen and mixed fertilizers expansion at Pascagoula and Yazoo City, Miss.	R	Oct	10	12
Mitsubishi Chemical — Bids for ethylene-based complex in Korea	N	Sept	26	25
Kasei-Upjohn see under name	N	Sept	26	25
Mizushima ethylene plant may be reopened to aid Idemitsu Chemical shut down by fire	R	Aug	1	25
Sales and earnings, first-half '73	R	Sept	12	55
Mitsubishi Corp. — Japanese investment in Brazil	R	Sept	12	53
Potash contract with Canpotex Ltd.	R	Oct	10	19
Puerto Rican units planned with Nippon Zeon and Corco N July 25-24	R	Nov	14	22
Sekidei works output due to industrial water shortage	R	Sept	5	23
Technology for DSM PP plant	N	Dec	12	19
Mitsubishi Gas Chemical — Brazilian joint venture N Aug 22-48	N	Sept	12	53
Mitsubishi Heavy Industries — Iraq's fertilizer plant at Basrah to be expanded	R	Oct	17	62
Mitsubishi Petrochemical — Australia: international consortium considering ethylene dichloride complex	R	July	25	18
Australian petrochemical complex competition heats up	N	Oct	10	31
China orders PE plants R Aug 8-16	R	Aug	29	30
Ethylene allocations will be given to Idemitsu customers as fire shuts down Idemitsu plant	N	Aug	1	25
Ethylene shortage seen	N	Aug	29	29

PP plant in the U.S. planned	R	Nov	14	22
Styrene monomer plant at Kashima planned	R	Aug	29	30
Mitsubishi Rayon — Fiber profits	N	Nov	14	21
Organic flocculating agents plant at Yokohama with Kao Soap	R	Aug	29	30
Mitsui — Ammonia-urea plant for China	N	Sept	19	32
Best sales ethylene-based complex	N	Sept	26	25
Buying 50% stake in Amara's aluminum business	N	Oct	22	9
PP plant for Peking	N	Oct	24	26
Potash contract with Canpotex Ltd.	N	Oct	10	19
South Vietnamese industrialization project	R	Aug	15	26
Survey of Japan's chemical needs (table)	R	Sept	26	26
Mitsui Shipbuilding & Engineering — PP plant for Peking	R	Oct	24	26
Sulfuric acid plant for South Korea	R	Sept	12	55
Mitsui Toatsu Chemicals — Survey of Japan's chemical needs (table)	R	Sept	26	26
Mobay — Urethane raw materials prices	R	Dec	12	41
Mobil Chemical — Foam tray producers fight Cleveland ordinance, which would require see-through packaging for meat	N	Nov	14	16
Mobil Oil — Asphalt price fixing case will not be reopened	N	Oct	17	14
Canada tax on crude may force cutbacks at some refineries	R	Oct	3	21
FTC charges unlawful monopoly in the refining of crude oil	R	July	25	19
Oil problems	N	Dec	12	12
Paraho's shale oil process being tested	N	Oct	10	9
Patent suit against Grace, involving three patents on zeolite catalysts: Court finds in favor of Mobil	R	Dec	5	20
Puerto Rico: dispute with Corco over feed-stock stocks	R	Oct	17	20
Refinery at East Chicago, Ind., will shut	R	Dec	5	22
"Search" review of docketed boost of refinery capacity at Paulsboro, N.J.	R	Nov	21	16
Swift will acquire nitrogen fertilizer plant at Beaumont, Tex.	N	Dec	12	9
TPA plant at Beaumont, Tex. to close	R	Aug	22	46
Monsanto Co. — AstroTurf: Synthetic turfs beat sales ban	R	Oct	31	15
Baker Industries acquiring dismantled ammonia plant at Muscatine, Ia.	R	Dec	12	9
Chocolate Bayou complex: will it get a large refinery by '77?	R	Dec	12	13
Cocoa market entry, new "true chocolate" flavor	N	Oct	17	51
Computer applications agreement with U.S.S.R.	N	Oct	17	65
Detergent phosphate prices	N	Oct	10	19
Fome-Cor, an expanded polystyrene foam bonded between layers of kraft in-board for mobile homes	R	Sept	19	14
Landgard system converts solid wastes into steam	R	Sept	26	29
Lansil Ltd. sold to Courtaulds	R	Oct	31	30
Launching electronic business expansion	R	July	11	24
Lopac expansion: Coca-Cola to test market extensively	R	Oct	24	13
Missouri again challenges insurance plan to employees	R	Aug	15	18
'73 plant and equipment expenditures	R	Sept	12	20
Nylon production trimmed by shortages of cyclohexane and caprolactam	R	Aug	29	9
Nylon textile yarns production cut on the Continent because of reductions in raw-material supplies	R	Dec	12	19
Phos-Chek flame retardants light wildfires	R	Sept	12	65
Resins plant at Antwerp, Belgium	R	Oct	24	29
Russia: negotiations for construction of a styrene complex	N	Dec	5	31
Sales and earnings: third-quarter predictions from Kerley	R	Oct	3	23
Stauffer exposes scheme to sell Monsanto trade secrets	R	Oct	24	16
Styrene-allyl alcohol resins prices	N	Aug	15	21
Styrene monomer prices	N	July	18	20
Synthetic tennis court surfaces	R	Sept	19	21
Technology and know-how for Russian acetic acid plant	N	Nov	28	11
Monsanto Canada — Polystyrene prices	N	Aug	29	15
Monsanto Enviro-Chem Systems — Bids to supply process design for sulfuric acid plant in Israel	R	Sept	19	33
Process for South Korean sulfuric acid plant	R	Sept	12	55
Process for sulfuric acid plant at Calgary, Canada	R	Sept	12	55
Monsanto Textiles — Polyester production cut because of glycol shortage	R	July	11	20
Montecatini-Edison — Drugs: joint venture with Hercules to market a group of Italian pharmaceutical products in the U.S. and Canada	R	Aug	8	14
Italian government takes over M-E's aluminum activities	N	Sept	19	31
Italy's major chemical makers will be building in the south (table)	R	Oct	31	27
Russia: seven chemical plants will be built, and payment will be partly in products from those plants	R	July	18	27
Montedison will get ammonia in payment	R	July	25	24
Sales and earnings: '73 earnings 4 months sales first half	R	Aug	8	16
Synthetic fiber operations being restructured	N	Oct	10	31
Tecnimont, and Orizono de Nora will supply	N	Oct	10	31

the Soviet government with caustic soda plant N Oct 10 31
 Titanium dioxide plant at Scarino will continue discharging wastes into the sea as discharge permit is renewed N Aug 29 35
 Production at Scarino is curtailed as local magistrate confiscates waste disposal barges N Oct 3 43
 Montefibre — Hopes to avoid labor strife by guaranteeing to maintain employment levels or to provide new jobs for workers laid off as a result of plant shutdowns N July 4 36
 Montell, Germaine Cosmetics — Peel-off facial masks uncover tidy new market for specialties Sept 12 77
 Moratti Group — Jamaican refinery planned July 11 20
 Morton-Norwich — New type of table salt, Lite Salt, contains equal parts of potassium chloride and sodium chloride Oct 10 35
 Morton Salt Co. — New type of table salt, Lite Salt contains equal parts of potassium chloride and sodium chloride Oct 10 35

N

NL Industries — Antimony oxide market (chart) July 18 21
 Rowley, Utah, magnesium plant slow start-up N Sept 12 32
 SURR process N Sept 5 32
 Titanates capacity at Niagara Falls, N.Y. to be doubled R Oct 31 15
 Nagle Pumps Co. — High-temperature pumps Dec 5 40
 Nalco Chemical — Air-pollution source sampling five-day seminar Sept 12 59
 National Chemsearch — Dividend boost Nov 21 50
 Institutional and industrial cleaners market Oct 22 21
 National Helium Corp. — Government goes to court to terminate helium contract July 25 23
 National Iranian Gas Co. — Transco Energy deal provides methanol fuel and NGL from Iran for conversion in the U.S. Oct 3 15
 Germany will participate in a refinery to be built on the Persian Gulf N Oct 24 26
 Iran exchanges crude oil for 50% of Asland's N.Y. operations Aug 8 14
 Turns down offer from Teijin to participate in refinery Aug 1 29
 National-Southern Aluminum — Negotiating for a Soviet alumina process July 4 34
 National Starch & Chemical — Sales and earnings: third-quarter earnings reported to N.Y. analysts Oct 31 10
 Nestle — Protein-from-petroleum activity Aug 8 20
 New England Petroleum Energy Corp. of Louisiana see under name
 Nihon Oxirane — Propylene oxide and styrene monomer plants R July 4 34
 Nihon Vinyl Chloride — Agrees to pay fishermen for loss fish from mercury contamination and to switch from mercury to diaphragm cells Aug 22 47
 Nippon Dacroc Shamrock — Diamond Shamrock's Dacrometal and Zincro Metal coatings will be manufactured and marketed R Sept 5 16
 Nippon Koei — South Vietnamese industrialization project Aug 15 26
 Nippon Mining — Cobalt and nickel to be produced at Hitachi refinery N Sept 5 19
 Nippon Oils & Fats — Forms U.S. company with Marubeni to build glycidyl methacrylate plant N Aug 22 41
 Joint venture, Nippon Dacroc Shamrock, will manufacture and market Dacrometal and Zincro Metal coatings R Sept 5 16
 Nippon Petrochemicals — Indonesian petrochemical complex planned Aug 15 26
 Nippon Polymers, joint venture, to study feasibility of butyl rubber plant in Japan Aug 22 50
 Nippon Polymers — Joint venture to study feasibility of butyl rubber plant in Japan R Aug 22 50
 Nippon Shokubai Kagaku Kogyo — Catalyst Co. formed to supply catalyst to GM for auto emission control N Aug 8-31
 Nippon Soda — Method of making ultrafine metal powder may be commercialized Aug 29 33
 Nippon Zeon — Australian venture with Dow and Kanagafuchi N Aug 15 25
 Isoprene and dicyclopentadiene unit in Puerto Rico planned N July 25-24 Nov 14 22
 Petrochemical production in U.S. considered July 25 24
 Nipiro Inc. — Caprolactam capacity at Atlanta, Ga. expansion R July 25 20
 Nitrocarbone — Brazil's first caprolactam plant planned N Oct 3 34
 Nitro Chemical — Piccolant plant taken over by Mitsubishi and Kac Soap R Aug 29 30
 Noranda Mines — Canada Development Corp. takeover attempt: Texasgulf charges CDC and Noranda violated U.S. antitrust laws by entering into "tacit agreement" to eliminate Texasgulf as a competitor Aug 15 18
 Norandex Inc. see under name
 Plasma-induced breakdown of molybdenum sulfide ore N Sept 26 31
 Norandex Inc. — Options potash land near Calabed, N.M. Sept 12 32
 Norocross Corp. — Fuel oil viscosity tester Dec 5 38
 Norseas Gas — Petrochemical complex at

Emden considered N July 11 37
 Norsk Hydro — Drops plans for petrochemical complex with ICI in England Oct 17 57
 Petrochemical complex plans set for Norway N Oct 17 57
 Norsk will hold 51% interest in ethylene plant Dec 19 36
 North American Philips — Intends to merge with PEPI R July 11 24
 Northern Natural Gas — Glycol exports to Japan will be about 2 million gal. in '74 N Dec 5 25
 Plastics exports to the Far East to be increased N Dec 5 25
 Strauss tells N.Y. analysts company has no lack of feedstocks for boosting chemical output Dec 5 20
 Northeast Utilities — Research on making hydrogen from water gets financial backing N Nov 14 38
 Northern Helix — Venting helium because of government contract cut-off July 25 23
 Northern Illinois Gas — Refinery at Sanford, Me., planned R Oct 31 15
 Northern Propane Gas — Houston Natural Gas buying south Texas retail propane operations Sept 19 15
 Northwest Alloys — Site preparation at Addy, Wash., for a projected magnesium plant N Oct 10 9
 Northwest Industries — Price boosts asked on chlor-alkali products, plasticizers, organics and pesticides N Sept 26 21
 Northwest Nitro-Chemicals — Commercial Solvents buys shares R Nov 21 20
 Norton Co. — Lakeville, Conn. operation to make engineered plastic products N Sept 26 31
 Nouy Chemical — Acquired by Akzona's Amtrak Div R July 18 16
 Nurel — Exxon sells Spanish nylon-6 venture to Banco Industrial del Mediterraneo N Sept 26 25

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Oakite — Institutional and industrial cleaners market Aug 22 51
 O'Brien & Gere Engineers Inc. — Study of algae growths in Lake Onondaga shows phosphate ban eases lake eutrophication N Oct 31 36
 Occidental Petroleum Acquires acres of phosphate rock reserves in Fla. Aug 8 19
 Chemical division acquires business of Barlo of New England N July 11 16
 Fertilizer complex in Russia: financing is nearing completion N Sept 19 9
 Garrett Research and Development Co. see under name
 Hooker acquiring some agricultural operations N July 11 16
 Libyan crude: escalating costs N Aug 22 41
 Outlook: presentation before security analysts Sept 19 16
 Suwannee River chemical complex and phosphate rock mine at White Springs, Fla., expansions R Oct 31 15
 Oceanography International Corp. — Microwave device, the Zapper, to do the work of pesticides and herbicides N July 18 31
 Odessa Refining Co. — Letter of intent with the USSR's Technosimport for the purchase of topping plant equipment and associated technology July 4 34
 Ogilvy & Mather — Dry Ban tv ads are false and misleading: rules judge; FTC seeks broad ad remedy Dec 19 21
 OHIS — Polyester staple and filament plant based on U.S. technology N Oct 24 9
 Oji-Yuka Synthetic Paper — PP based synthetic paper may be produced in the U.S. Nov 14 22
 Okayama Kasei — Fishermen charge contamination from Muzushima complex is threatening their livelihood July 4 34
 Okwani — N.J. firms plead with Congressmen for allocations Dec 19 17
 Old Ben Coal Corp. — Plant planned to reduce the sulfur content of coal, provide a middle distillate liquid fuel N Nov 28 46
 Olin Corp. — Agricultural Div.'s general manager Richard Hindmeyer: Accountant adds profits to ag chemicals Dec 5 48
 Aluminum business to be sold to Consolidated Aluminum N Sept 26 9
 Consolidated Aluminum's acquisition — a good deal for both Oct 3 18
 Detergent phosphate prices N Oct 10 19
 Forms Marston Electrolytic Systems: new source of metal anodes for chlor-alkali production N Nov 28 46
 Interest rate boosts won't hurt CPI July 18 14
 Solvay units, like Lake Charles plant, won't have to hit zero discharge Oct 17 19
 Olympic Refineries — Refinery in New Hampshire planned Dec 12 15
 Onetta Knitting Mills — Six-month strike over R Aug 1 12
 Ontario Paper — Plant to treat liquid wastes R July 11 36
 Orange & Rockland Utilities — Electricity cost increases likely early next year Nov 7 9
 Orbiter — Ciba-Geigy acquires honeycomb structures and rigid foam businesses R Sept 12 29
 Organon — Pharmaceutical acquisition in U.S. considered Nov 7 12

Organisko Kemijska Industrija — Polystyrene joint venture with Dow Europe in Yugoslavia N Sept 19 31
 Ormet — Olin to sell its share to Consolidated Aluminum N Sept 26 9
 Oronto de Nora — Caustic soda plant for Russia N Oct 10 31
 Orrow Products — Steam iron, all-plastic made from Noryl Nov 14 16
 Österreichische Stickstoffwerke — Process for Swedish aluminum fluoride plant R July 11 36
 Owens-Corning Fiberglas — Barrington, N.J., glass-fiber wool plant struck R Oct 24 16
 Forecasts '78 consumption of glass-fiber-reinforced plastics by the electrical industry at 140 million lbs. N Aug 8 19
 Glass-fiber fabrics: Sheerfill, new idea in roofing Dec 5 23
 Modules that make up a multipurpose room shown at N.Y. Fiberglass Center July 11 23
 Owens-Illinois offers shares for its own stock R Sept 26 17
 Plastic piping Dec 5 40
 Reinforced-plastics forecast N Oct 31 25
 Owens-Illinois — Glass container plant in Mansfield, Mass. planned R July 11 24
 Owens-Corning Fiberglass shares offered for its own stock R Sept 26 17
 Sales and earnings, '73 second-quarter July 4 10
 Thermoplastic threaded closures at St. Charles, Ill., and Brookville, Pa., capacity increase R Oct 24 16
 Ozark-Mahoning — Penwalt to acquire the remaining 64% R Dec 19 21

P

PEPI — North American Philips merger planned R July 11 24
 PPG Industries — Beker Industries buying phosphate deposits near Brandenton, Fla. Oct 17 24
 Coatings and resins production plant at Oak Creek, Wis., contract goes to Dravo R Sept 12 29
 Dividend boost N Aug 1 5
 Filtril buys Columbia Cement div. R July 11 24
 Glass fiber expansion at Lexington, N.C. R July 25 20
 Guaynilla, P.R., plant's third chlorine leak spurs shutdown Dec 19 19
 Industrial Chemicals Div. — peroxycarbonate market Sept 19 25
 Neubauer urges all employees to join in the company's Project Energy Aug 8 27
 Outlook: presentation before security analysts Sept 19 16
 Puerto Rico Environmental Quality Board issues amended order directing the company to establish a complex system of chlorine leak controls, reporting, and monitoring equipment R Sept 12 29
 Puerto Rico powers up to bolster chemical plant production Oct 10 25
 RFP use will double by '78 says Paulus N Oct 31 25
 Sales and earnings: third-quarter '73 Oct 17 22
 Silene EF and Silene L calcium silicate pigments to be phased out at Barberston, O. R Dec 19 21
 Silica pigments prices R Dec 19 29
 Tarran runs aground off Puerto Rican coast Sept 5 15
 Terni Industrie Chimiche to build PPG-licensed silica pigments plant near Rome, Italy N Oct 17 13
 Urethane makers face product-misrepresentation lawsuit over flammability Oct 10 16
 PVO International — Hammesfahr, Frederic, v-p: Boating buff sets sail on profitable tack Dec 12 60
 Paccal Corp. — Process for cyclic thermal cracking of crude of hydrocarbon residual streams to yield ethylene Dec 5 18
 Pacific Resources — Feasibility study on refinery and natural gas complex near Carlsbad, Calif. Oct 17 13
 Hawaiian Independent Refinery capacity boost July 11 20
 Panhandle Eastern Pipeline — Coal gasification plant in Wyo. Oct 10 9
 Olin Corp. — Naphtha plant startup being delayed because of feedstock problems N July 4 33
 Paraho Development Corp. — Shale oil process being tested N Oct 10-9 R Nov 21 20
 Parke, Davis & Co. — Contraceptive, Loestrin 1-20, FDA's objection to magazine ad explained Aug 15 18
 OCWA pact carries large wage increases July 11 24
 Parke-Davis S.A. — Argentina court ruling provides that a foreign company's wholly owned subsidiary cannot consider royalty and patent payments to the parent as an operating expense to offset local taxes N Aug 29 29
 Parson, Ralph M. & Co. — Contracts for refinery and natural gas complex near Carlsbad, Calif. N Oct 17 13
 Contract from Hawaiian Independent Refinery for refinery expansion R Aug 22 19
 Engineering contractors push recruiting and training efforts to solve growing shortage of chemical plant design personnel Nov 28 43
 U-Gas, new coal gasification process for low-Btu fuel, is looking for users N Aug 1 35
 Process looking for help Dec 19 41

Paskin — Japanese joint venture in Brazil
N Aug 22-48 Sept 12 53
Patents International Affiliates — Licenses
Japan Maize to make a variety of resins
based on a new process using starch Nov 14 38
Patterson-Kelley — Continuous tubular dryer
Pechiney — Strike shuts down aluminum plant
at Nogueres N July 4 12
Pel-Tex, Inc. — UC negotiating natural gas
intrastate contract N Nov 28 33
Penick, S.B. — Codeine shortage seen as a
result of halted opium production in Turkey July 11 24
Opium supplies adequate Aug 22 10
Penn Central RR — Aid for ailing line
Shutdown opposed by ICC; chemical companies
favor private ownership in rail
reorganization Oct 10 14
Pennwalt Corp. — Acquiring the remaining
64% of Ozark-Mahoning R Dec 19 21
Chlor-alkali unit in Tacoma, Wash., modern-
ization and expansion N July 4 10
Lucidol Div. — Azo initiators plant will aug-
ment the company's line of organic per-
oxides N Dec 19 39
Lucidol Div. modernization and expansion
program at Genesee, N.Y. Aug 29 13
Lucidol Div. — peroxycarbonate mar-
ket Sept 19 25
Presents figures to Philadelphia analysts to
prove its products were not very energy-
dependent Dec 5 20
Penzol — Gulf Coast site sought for re-
finery July 11 20
Suit against Coastal States Gas and
Lo-Vaca Gathering over gas contract
fled July 4 10
Perramini — Banks on natural gas reserves to
end dependence on fertilizer imports Oct 17 59
Commonwealth Oil to buy condensate R Oct 3 24
Forms an engineering division with Japan
Gasoline and Far East Oil Trading R Sept 19 33
Petrochemical complex in Indonesia Aug 15 26
Petalite — Reynolds International: New
Orleans jury indicts RI on charges of vio-
lating import sanctions against Rhodesia
and falsifying import documents submitted
to Customs Nov 14 15
Peters, Lovett C. Associates — Refinery at
Sanford, Me. planned R Oct 31 15
Petium — Petrochemical complex at Alaga
refinery on the Aegean Sea proposed N July 4 36
Petrobras — Marketing fuel products refined
from shale oil N July 25 28
Petrochemical Investment — Polystyrene resin
plant in Houston sold to Richardson Co. R July 4 10
Petrodow — Dow Chemical may get back its
petrochemical plants in Chile N Oct 3 34
Chile may return control to Dow, but
government aims at increasing owner-
ship N Oct 17 57
Petroquímica da Bahia — Caprolactam plant
planned in Brazil N Oct 3 34
Petroquímica General Moscov — Aromatics
project starts up at La Plata in Feb. '74 N Nov 14 21
Petroquisa — Caprolactam plant planned in
Brazil N Oct 3 34
Japanese investment in Brazil N Sept 12 53
Petro-Tex Chemical — Neoprene: Treasury to
impose dumping duties on imports from
Japan: Prelude to price hike? Nov 14 15
Pfizer Inc. — Analytical technique for measur-
ing the asbestos impurities of talc Aug 1 34
Antibiotics' price fixings, Cyanamid and
Pfizer agree to pay \$35 million as settle-
ment R Sept 5 16
Five major drug companies will shell out
\$39.6 million N Oct 24 9
Companies cleared of criminal charges N Dec 12 14
Cyclamates' tests fail to support FDA
claim that cyclamates are carcinogenic July 11 23
Dividend Dec 5 22
Oxytetracycline tested for plant disease
control Oct 10 35
Penicillin manufacturing unit at Groton,
Conn. expansion R Aug 29 13
Powers at UN's public hearings on multi-
national companies Sept 19 19
Phenolchemie — Cumene oxidation plant in
W. Germany destroyed by fire R Sept 19 33
Philadelphia Quartz — Alumina dispersion
Q-Loid A-30 — emulsifying agent for carpet
cleaner Aug 29 26
Q-Cel micropheres Nov 14 16
Philips-Duphar — Dow and Philips call off
negotiations for Dow's purchase of interest
in Philips-Duphar chemical division Aug 29 12
Philips Industries — Dow's negotiations for
purchase of an interest in Philips-Duphar
chemical division called off Aug 29 12
Philips Petroleum — Asks French approval to
import and refine crude oil which will not be re-
opened N Oct 17 14
Cactus ammonia plant at Etter, Tex. to be
shut down R Aug 22 19
Government goes to court to terminate
helium contract N Nov 14 18
Norsk Gas see under name
Parahex process: Atlantic Richfield and PP
join 13 other firms to demonstrate the
process R Nov 21 20
PE plant at Adams Terminal, Tex. to get

additional capacity R Oct 17 25
Polypropylene patent fight with Karl Ziegler's
interests: Supreme Court may get in on
fight N Aug 22 55
Puerto Rico powers up to bolster chemical
plant production Oct 10 25
Pigmentos y Productos Químicos — Du Pont
plans chlorine-caustic project at Altamira
complex N Sept 5 23
Planinsa — Contract to Romar Consultants
for formaldehyde plant in Lima R Sept 12 55
Plantex — Koor buys 50% interest R July 25 20
Plex Chemicals — Institutional and industrial
cleaners market Aug 22 52
Polidura — Du Pont acquires 90% N Aug 1 5
Polimeros del Lago — LDPE plant at El
Tablazo, Venezuela R Oct 17 62
Polyolefins Industries Ltd. — HDPE capacity
increase planned R Aug 29 30
Polysar Ltd. — Joint venture, Nippon Poly-
mers, to study feasibility of butyl rubber
plant in Japan R Aug 22 50
SOAP project moving into high gear N Aug 1 26
UC Canada may replace Dow as par-
ticipant N Sept 5-23 Oct 24 29
Trans-polyisoprene sheets used for splints
that conform to body contours Aug 15 23
Polysar Plastics — Purchases General
Plastics R Aug 1 11
Potlatch Forests — Press-To-Log, compres-
sion-molded from sawdust Dec 19 30
Precision Polymers — Plastic pipe: two plants
temporarily shut down Oct 17 53
Suit charges Allied broke supply pact,
antitrust laws Sept 26 16
Pridden Engineering — Acquired by Jacobs
Engineering R Dec 19 21
Process Marcelia Borghese — Peel-off facial
masks uncover tidy new market for special-
ties Sept 12 77
Pritchard-Rhodes — LNG plant for Sonatrach
at Skikda, Algeria R Aug 15 27
Phosphate fertilizer plant in Jordan feasi-
bility study July 18 16
Proctor & Gamble — Acquisition of Inter-
national Paper's manufacturing plant at
Oxnard, Calif., completed R Oct 31 15
Detergent phosphate report N Sept 12 32
Phosphate-content labels on detergent
packages Aug 15 16
Sales and earnings — third-quarter '73 Oct 17 22
Produits Chimiques du Sidobre Sinova S.A.
— Ethyl Corp. asks French government per-
mission to buy 76% R July 25-20 R Aug 22 50
Public Service Electric & Gas — Electricity
cost increases likely early next year N Nov 7 9
Natural gas supplies cut Dec 12 12
Puerto Rico Olefins — Penulas complex:
Shortage of feedstocks will force a two-week
shutdown N Dec 5 25
Pulman Swindell-Dressler Div. — HYL
process Sept 5 32
Purix Industrial Products — Institutional and
industrial cleaners market Aug 22 51
Purvin & Lee — Grolinger on low-Btu gas Dec 19 41

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Quaker Oats — Dividend raised R Sept 26 17
Furfural plant at Belle Glade, Fla. addition R Aug 22 19
Questron Corp. — Auto emission standards for
oxides of nitrogen may be delayed due to
testimony of converter suppliers N July 11 33

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Rachelle Laboratories — Application to market
Chloracrole 250 pig-feed premix approved
by FDA R Aug 15 18
Randco Plastics — Injection molders, hit by
shortages of plastic raw materials, launch
a campaign for government aid Nov 28 15
Ranks Hovis McDougall Ltd. — Joint venture
protein process development with Du
Pont Oct 17 65
Reichhold Chemicals — Epoxy resin system to
resurface the Brandywine Creek, Del.,
bridge Sept 12 29
Resin price boosts requested N Sept 26 21
Sales and earnings, first-half '73 R Sept 12 55
Urethane makers face product-misrepre-
sentation lawsuit over flammability Oct 10 16
Republic Steel — Recycling of wastes from
steel-mill stack gases will be tried at South
Chicago plant N Nov 21 25
SURIN process Sept 5 32
Research Corp. — Georgia researchers find
a way to make liquid aspirin Aug 1 23
Revere Copper & Brass — Production cut
back N Aug 22 19
Rexall Chemical — Fibertel Div.: Dart resin
patent invalid; court reverses lower-court
ruling and clears Du Pont to sell the resins Oct 3 21
Rexham Corp. — Sells two folding carton
installations July 18 16
Reynolds Metals — Aluminum prices Dec 19 19
Aluminum sheet items output will be cur-
tailed Oct 31 13
Gaseous-diffusion uranium enrichment plant
near Buffalo, Wyo., abandoned because of
inability to line up partners Oct 10 16

Hamburg mill held up because of unap-
proved emission limits Oct 16 68
Recycling program now produces as much
aluminum as it would have made if it had
built a new potline Nov 7 12
Silicon capacity upped with new furnace
at Sheffield, Ala. R Oct 3 24
Tosco may acquire Buffalo coal reserves N Oct 10 16
USW will bargain early on next aluminum
pact Aug 22 18
Rheinische Olefinwerke — Butadiene plant
starts up R Aug 22 49
Rheinische Union Braukohlen-Kraftstoff —
To study refinery at Buschir, Iran N Sept 12 68
Rhinechem — Offer to purchase 100% of
Cutter Labs' Class A and B stock R Dec 12 15
Rhône-Poulenc — Adiponitrile joint venture in
France discussed with Du Pont N July 25 24
Gillet, Renaud appointed as chairman R July 4 34
Gillet, Renaud, new chairman: At home in
boardroom and bookstore Aug 29 38
New management hopes to end long profit
slump Aug 29 30
Sales and earnings '73: six months N Oct 24 26
Technology for nylon and polyester fiber
units for Chinese complex N Oct 3 34
Thai Melon Polyester, joint polyester
venture R Oct 3 33
Rhône-Progil — Phosphate fertilizer plant in
Jordan feasibility study R July 18 16
Phenac anhydride process applications
pushed Dec 19 39
Riceland Foods — New plants will convert
rice hulls into cement N Dec 12 51
Richardson Co. — Acquisition of Petro-
chemical Investment's polystyrene resin
plant in Houston R July 4 10
Richardson-Merrell — Dividend boost and
stock split N Aug 1 5
President Marchbanks reports to San Fran-
cisco analysts Nov 14 18
Rimar Manufacturing — Acquisition of
Crescent Plastics from Essex Chemical R Oct 24 16
Robins, A.H. — Miller-Morton see under name
Robotech — PVC resin plant at Freeport, Tex.,
in partnership with Shinetsu Chemical N Nov 14 22
Roche Products — Suing the British govern-
ment for damages suffered as result of an
order to slash prices of Librium and
Valium N July 4 12
British Court will decide whether govern-
ment was right in forcing price cuts Aug 1 24
London's Appeal Court reverses High
Court ruling N Aug 8 23
Rockwell International — Rocketdyne Div. —
foamed-in-place plastic plugs to stop leaks
of chemicals from containers N Oct 10 21
Roehm — Makroform, joint venture with Bayer,
set up to extrude polycarbonate semi-
finished products R Sept 19 33
Rohm & Haas — Acrylic Plexiglas for recrea-
tional vehicles Sept 19 14
Acryloid resins plant in Louisville, Ky. on-
stream R July 11 24
Dividend boost N Aug 1 5
Du Pont stirs up acrylic sheet makers with
market re-entry Oct 10 15
Hebben "leaning toward recommending"
a dividend hike July 4 8
Institutional and industrial cleaners market
Outlook: presentation before security
analysts Sept 19 16
Product prices N Sept 19 25
Sales and earnings, second-quarter '73 N Oct 18 14
Third-quarter '73 July 17 22
Shell will probably be propylene supplier
for Houston plant July 11 21
Yugoslavian polyester staple and filament
plant based on U.S. technology N Oct 24 9
Romar Consultants — Contract for Planinsa's
formaldehyde plant in Lima R Sept 12 55
Rorer-Amchem — William H. Rorer plant in Fort
Washington, Pa., capacity upped R Oct 24 16
Rotterdam Polyolefines Maatschappij —
Rotterdam propylene unit July 11 35
Royal-Dutch/Shell group — Third-quarter
earnings discussed by de Bruyne before
Philadelphia analysts Oct 3 23
Royal Packaging Industries Van Leer — Photo-
degradation processes for plastics Dec 12 42
Ryo-Nichi — Fishermen charge contamination
from Mizushima complex July 4 34

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SCM Corp. — Glidden-Durkee Div. Baltimore
plant strike: end of strike won't mean end of
TiO₂ shortage Sept 26 15
Sabine Towing & Transportation — Tanker
Sabine runs aground off Puerto Rican
coast Sept 5 15
Saga Petrokem — Norway's Norsk Hydro will
hold 51% interest in ethylene plant Dec 19 36
St. Francisville Paper — St. Francisville, La.,
plant struck — Dividend raised R Sept 26 17
St. Joe Mineral — Dividend raised R Dec 12 15
St. Regis Paper Co. — "Cross-plastic" bags
made from Valeron film July 11 39
Heat from plant wastes R Dec 12 10
Salgema Industria Quimica — Du Pont ac-
quires 45% N Aug 1 5
Saline de Montebello — Oil-based protein

San Diego Gas & Electric — Feasibility study on refinery and natural gas complex near Carlsbad, Calif.	N	Oct	17	13	Shionogi & Co. — Joint venture, Shionogi	R	Oct	24	29	Statol — Norway's Norsk Hydro will hold 51% interest in ethylene plant	R	Dec	19	36	
Sandoz — Antwerp projects	July	11	35	Replacing mercury-cell plant at Kawasaki	N	July	18	31	Stauffer Chemical — Acquires AcCent International from Wm. Underwood	N	Aug	8	9		
Sales and earnings, first-half '73	N	Aug	1	29	Simplot Chemical — Ammonia capacity may be upped at Brandon, Man., plant	N	Dec	19	13	Acquisition of Knudsen's whey processing operations at Visalia, Calif.	R	Nov	28	18	
Sandoz-Wander — Acquisition of IMC's Crop Aids Dept.	R	July	18	16	Snapp Co. — Cited for alleged violation of job-safety standards in connection with LNG storage tank disaster at Staten Island, N.Y.	N	July	25	28	Crystex insoluble sulfur plant planned	R	Aug	15	18	
Sanyo Chemical Industries Ltd. — Tobata, Hiroshi president. He's starting a new career at age 57	Dec	19	52	Sinclair-Koppers — Atlantic Richfield negotiating to buy Koppers' interest in S-K Aug 15-15	R	Nov	7	15	Exposures scheme to sell Monsanto trade secrets	Oct	24	16			
U.S. is likely to be a major growth area during the next few years	Dec	19	34	Foam tray producers fight Cleveland ordinance, which would require see-through packaging for meat	Nov	14	16	Food Ingredients Div. formed	N	Aug	22	9			
Saras Chimica — Italian government approves projects	N	Aug	22	48	Styrene monomer and polystyrene prices	N	Sept	26	21	Herbicide, Sutan +, introduced	N	Oct	17	51	
Scheide Chemie, N.V. — Bayer and Ciba-Geigy to commercialize a new anthraquinone process	N	Sept	5	31	Sindri Fertilizer Factory — Sulfuric acid plant, using Bulgarian technology to be built	R	Oct	24	29	Institutional and industrial cleaners market	Aug	22	51		
Schering-Plough — Coppertone: Suntan products market	July	25	35	Singapore Nylon Corp. — Zimmer to build nylon yarn plant	R	Aug	29	30	Sales and earnings: third-quarter '73	Oct	17	22			
Dividend boost	N	Aug	1	5	Singapore Petroleum — Feedstock naphtha for Sumitomo's unit	Aug	15	26	July 18-14	Aug	29	10			
Schavone & Sons — Tender offer for up to 130,000 shares of Coreco Corp. okayed by N.Y. judge	Aug	22	16	Sittenfield, Marcus & Associates — Technology for Peruvian formaldehyde plant	R	Sept	12	55	Scanger plant oleum solution leak causes evacuations in Carson, Calif.	Aug	29	10			
Scientific Design — Transfers the majority of voting stock of its subsidiary, S.D. Plants Inc. to Technip, Inc.	N	Oct	10	21	Skest Laboratories — Marketing study on fire retardants	Nov	14	34	Second-quarter earnings and sizable expansion plans	July	18	14			
Scientific International Research — Bribery allegations in connection with sale of chemicals to municipal officials lead to injunctions in Wisconsin	Nov	7	11	Skelly Oil — Sulfur recovery unit at El Dorado, Kan., refinery	R	July	4	10	Silicone glazing material	Oct	3	26			
Scott Paper — Acquisition of U.S. Industries' plant in Rogers, Ark.	Oct	31	15	Skylight Homes Ltd. — Plastic prefab houses will be bartered for Indonesian hardwood	N	Aug	7	9	Stock dividend	R	Oct	24	16		
Expenditures	Dec	12	10	Slovchemia — Czechoslovakia's chemical industry building boom (map)	Aug	1	27	Steel Co. of Canada — SUI/RN process	Dec	19	29				
Paper capacity expansion at Chester, Pa.	R	Oct	31	15	Smith & Nephew — Sheets of trans-polyisoprene for splints	Aug	15	23	Steelmaker Korf — Direct-reduction steel plant for Iran	Oct	5	32			
Pulp manufacturing plant to be built in Maine to take over Winslow, Me. operations to be phased out	R	Sept	26	17	Smith-Inland, A.O. — Reinforced Plastics Div. — plastic piping	Dec	5	40	Stepan Chemical — Dividends	R	Nov	28	18		
S.D. Plants Inc. — Scientific Design transfers the majority of voting stock of SDP to Technip	N	Oct	10	21	Smith Kline Corp. — Sea & Ski: Suntan products market	July	25	35	Stepan, F. Quinn, new president: He started on sales trips early in life	Nov	14	48			
Seaboard Coast Line — Phosphate rock shipments moving through Rockport, Fla. terminal again	N	Aug	1	25	Spain Projects — Contract for ethylene plant	R	July	25	SO ₂ sulfonation unit at Milledale, Ill. planned	Nov	21	20			
Seamco Sporting Goods — Tennis ball manufacture	Sept	19	23	Snia Viscosa — Italian government approves projects	N	Aug	22	48	Stevens, J.P. — Denies knowledge of "bugging" of union organizer's motel room; suit filed	N	Aug	22	9		
Seasie G.D. & Co. — Augusta, Ga. plant to produce new artificial sweetener, aspartame R Aug 15-18	Nov	14	22	Sobin Chemicals — China places order for U.S. phosphate rock	N	Nov	21	13	Indoor-outdoor carpet	Aug	22	9			
Seekey Chemical Co. — Chelating resins seek new markets in water purification field	Aug	8	33	Soc. Belge de L'Azote et des Produits du Marly — Merge fertilizer interests	R	Oct	24	29	Stines, Hugo AG — Will acquire control of several Gulf marketing subsidiaries and operations in Germany	Aug	22	49			
Sekisui Chemical — Irradiated cross-linked polyethylene foam plant to be built at Roermond, Holland	N	Aug	29	29	Soc. Carbochimique — Merge fertilizer interests	R	Oct	24	Stoltz, Wagner & Brown — Coal gasification project agreement	Oct	10	9			
Selg Co. — Institutional and industrial cleaners market	Aug	22	51	Soc. de Combustible pour Reacteurs a Haute Temperature — Gulf Oil will team up with a French group to push HTO	July	4	33	Stone & Webster — Solution/Gasification Process will be integrated with Gulf's high-temperature, gas-cooled nuclear reactor to help convert coal into gas	Nov	21	25				
Servicemaster's Franchise Div. — "Steam cleaning" or "wet scavenging" for carpet cleaning	Aug	29	25	Soc. Italiana Resine — Tire plant may be built near Naples	N	July	4	36	Strong-Scott — Dryer-cooler	Dec	5	38			
Shaw Moisture Meters — Hygrometers	Dec	5	38	Soc. Normande de Matieres Plastiques — PP expansion	N	Aug	1	26	Sukni — Thai Melon Polyester, joint venture	Oct	3	33			
Shell Canada — Canadian sulfur producers charged with dumping	Aug	1	9	Soc. Pour l'Equiptement des Industries Chimiques — Bidding for ethylene-based complex in China	N	Oct	3	34	Sumitomo Chemical — Benzene-toluene-xylenes plant for China	July	4	35			
Dumping duties in doubt	Oct	31	9	Soho Petroleum — Paraho's shale oil process being tested	N	Oct	10	9	Fishermen charge contamination from Mizushima complex	July	4	34			
Shell Chemical — Aldrin and dieldrin: Sloan offers five-point plan for control uses	Oct	24	12	Solvay — Interco Chemical see under name	Dec	19	33	Joint venture in the U.S.	N	Aug	8	23			
Deer Park, Tex., plant blast closes ethyl chloride unit	Oct	24	9	Solvents Recovery System — Synthetic fuel made from coal powers destroyer, U.S.S. Johnston	N	Nov	21	25	LDPE plant for China	N	Sept	19	32		
Ethylene cracker possible joint venture with BP Chemicals and ICI	Sept	19	31	Sonatrach — LNG plant at Skikda, Algeria	R	Aug	15	27	Oita works reduces production following fire	N	Aug	22	48		
Justice Dept. cites Co. for discharging acetone into the Mississippi River	R	Sept	19	19	South African Coal, Oil & Gas Corp. Ltd. — World's first SNG-from-coal plant: tests completed	N	Nov	21	25	Sales and earnings, first-half '73	R	Aug	8	16	
Norco, La. plant resumes operations after shut down caused by fire	N	Aug	22	41	South African polyolefins — PP plant	N	Aug	1	26	Singapore: ethylene-based petrochemical complex planned	Aug	15	26		
Vapona, 2,2-dichlorovinyl dimethyl phosphate, major active ingredient in flea collars	Sept	26	34	Southern California Edison — Paraho's shale oil process being tested	N	Oct	10	9	Studying reactivation of Chiba ethylene plant to aid Idemitsu Chemical shut down by fire	Aug	1	25			
VCN expansion at Norco, La.	Aug	1	15	Research on making hydrogen from water gets financial backing	N	Nov	14	38	Sumitomo Shoji do Brasil — Petroleum coke plant in Brazil	Sept	12	53			
VCN unit starts up	R	Oct	17	25	Southern Industries — Acquisition of Mead's Longview Lime Div.	R	Aug	15	18	Sumitomo Shoji Kaisha — Benzene-toluene-xylenes plant for China	July	4	35		
Shell Chemicals U.K. — British chemicals: waiting for the thaw — report	Oct	3	30	Southern Petrochemical Industries Corp. — Fertilizer complex planned	R	Aug	29	30	Petroleum-based protein plant at Jassy, Rumania	Aug	8	20			
Shell Nederland Chemie — Arab oil cutbacks will hurt the Dutch chemical industry	N	Nov	7	67	Spalding — Tennis ball manufacturer	R	Sept	19	23	Sun Chemical — Gravure printing ink plant in northern Ill.	R	Aug	15	18	
Dicyclopentadiene plant at Moerdijk	N	Oct	24	29	Spartan Mills — Wage increase delayed at request of CLC	R	Aug	1	12	Ertes Dresse — Negotiating to buy an 80% interest in Priting inks' price hikes trimmed by CLC	July	4	35		
Netherlands' Moerdijk complex (map)	July	11	34	Spartan Minerals — Gulf Resources may acquire SM	N	Oct	31	6	Sun Oil — Marcus Hook, Pa. refinery strike over	R	Aug	1	12		
Shell Oil — Canada tax on crude may force cutbacks at some refineries	Oct	3	21	Squibb — Antibiotics settlement: Five major drug companies will shell out \$39.6 million	N	Oct	24	9	Project to test a new process for extracting oil and gas from shale	N	Oct	10	9		
FTC charges unlawful monopoly in the refining of crude oil	July	25	19	Staley, A.E. Mfg. — Corn refining plants at Decatur, Ill., and Morrisville, Pa., expansions	R	Oct	10	17	Sunray DX — Asphalt price fixing case will not be reopened	Oct	17	14			
Gasification technology can make pure hydrogen from any hydrocarbon that can be pumped	July	11	49	Standard Oil of Calif. — FTC charges unlawful monopoly in the refining of crude oil	July	25	19	Supra — Fertilizer sold to Russia	N	Aug	22	47			
Mitsubishi Petrochemical's styrene monomer plant to use Shell process	R	Aug	29	30	Miller tells N.Y. security analysts that oil problems are spreading	Aug	15	15	Swift Chemical — Moving to acquire Mobil's nitrogen fertilizer plant at Beaumont, Tex.	Dec	12	9			
Natural gas trends report chemicals share of use 3% now, 6% in '90 (charts)	Oct	3	21	Testing of new geothermal well scheduled	N	Aug	22	55	Silver City phosphate mine near Bartow, Fla., shut down for an estimated six weeks by the collapse of a 150,000-gal. tank	Sept	12	31			
Oil-based protein plant	Aug	8	20	Standard Oil of Indiana — FTC charges unlawful monopoly in the refining of crude oil	July	25	19	Sybron Corp. — Sales and earnings, '73 second-quarter	July	4	10				
Paraho's shale oil process being tested	N	Oct	10	9	Standard Oil (Ohio) — Bares 210 resin plant planned	R	Aug	15	18	Synchrude Canada — Alberta grants permission to build extraction plant at Mildred Lake	N	Nov	21	35	
Propylene supplier for Rohm and Haas acrylates plant in Houston	July	11	21	Stock split proposed; dividend increased	R	Oct	3	24	Syntex Corp. — Acquisition of Bengue & Co.	Oct	24	29			
Refinery barred from constructing in Del. two years ago may be built in N.J.	July	4	8	State Chemical — Institutional and industrial cleaners market	Aug	22	51	Purchases shares of Marion Laboratories stock; plans units at Boulder, Colo., Freeport, Bahamas, Puerto Rico and Spain	R	Oct	3	24			
Shell Puerto Rico — Puerto Rican gasoline producers protest price controls	Aug	29	9					Stock split	R	Oct	10	17			
Shenwin-Williams — Saccharin capacity to be hiked about 25%	Nov	28	18												
Sales and earnings, '73 second-quarter	Aug	4	10												
Shoedo Cosmetics — Peel-off masks remove dirt and loose flakes of skin	Sept	12	77												
Shinetsu Chemical Industry — Kashima Vinyl Chloride Monomer see under name															
PVC resin plant at Freeport, Tex., in partnership with RobinTech	Nov	14	22												

Tecon Gasification Co. — Naphtha gasification plant at Donaldsonville, La., rejected	Sept 12 22	projects	N Aug 22 48	Licensing agreement with two Japanese companies to develop an oil-to-olefins cracking process	Dec 5 18
Teijin — Fiber and textile capacity increases overseas planned	Oct 3 34	Titanio — Titanium dioxide plans push ahead	N July 25 24	Linde Div. — Air separation plant at Garland	July 18 16
Fiber profits	Nov 14 21	Toatsu Chemical — Ammonia-urea plant for China	Sept 19 32	Linde Div. sees helium growth	July 25 23
Forms joint venture, Teijin Fier Medical with Boehringer Ingelheim	July 11 36	Toho Rayon — Fiber profits	Nov 14 21	Marietta, O., and Bound Brook, N.J., will stop making conventional epoxy resins by the end of '74	Nov 14 27
Korean ventures	Sept 26 25	Toko Gas Co. — Frozen food warehouse that will be kept cold by LNG rather than conventional refrigerants, will be built near Tokyo	Sept 12 73	Metromation process-control package called RUC	Oct 24 33
National Iranian Oil turns down offer to participate in refinery in Korea	Aug 1 29	Toko, Inc. — Navy's "Sham", underwater testing vehicle, may open new marine markets for epoxy-reinforced glass fiber	July 25 20	Molecular sieve expansion at Mobile, Ala. plant	N Aug 22 9
Polyester fiber plant near Jakarta, Indonesia, planned	R Oct 10 31	Toray — Fiber profits	Nov 14 21	Natural gas intrastate contract with Hanover Planning and Pel-Tex	N Nov 28 33
Technology for Montedison fiber plant	N Oct 10 31	Holds 30% of Ticanit	July 11 36	73 plant and equipment expenditures	Sept 12 20
Teijin Fier Medical — Joint venture for pharmaceuticals formed	R July 11 36	Petrochemical lysine route to be used by Kyowa Hakko Kogyo	Oct 3 43	Oak Ridge testing new approach to disposal of slightly radioactive oil	Oct 10 22
Teijin Saito — Equipment for Montedison fiber plant	N Oct 10 31	Total Petroleum (North America) Ltd. — Stock offering	Nov 14 19	Puerto Rico powers up to bolster chemical plant production	Oct 10 25
Tekstilip Sanayii Ve Ticaret — Zimmer contracts to build nylon-6 plant at Edirne	R Oct 3 33	Toyo Engineering — Ammonia-urea plant for China	Sept 19 32	Sevin carbaryl insecticide being used for flea-control collars	Sept 26 34
Telex — IBM antitrust case: Judge favors Telex in tel-olers-first finding; damages portion to be reopened	Oct 17 20	Survey of Japan's chemical needs (table)	Sept 26 26	Urethane polyol capacity will be upped at Scott Charleston, W.Va. plant	N Nov 21 13
Tenneco Chemicals — Cosby process for separating carbon monoxide from gaseous mixtures could be used to produce fuel	Sept 5 13	Toyota — UOP to supply catalyst needs	July 25 20	Vinyl acetate plant at Texas City, Tex. planned	N Nov 7 9
Marked: Chemical sales growth rate will slow down in '74	Oct 24 14	Transco Energy Co. — National Iranian Gas Co. deal provides methanol fuel and NGL for conversion in the U.S.	Oct 3 15	Waste products as supplemental fuels	Nov 28 12
"North Star" natural gas deal signed with Soviets	July 11 15	Transcontinental Gas Pipe Line — Coal gasification project agreement	N Oct 10 9	West Virginia projects will cost more than \$100 million	Aug 22 16
Tenneco Colors — American Aniline Products plans to increase its stake in dyes with acquisition of Tenneco Colors R Dec 5-22	Dec 12 13	Travancore Cochran Chemicals — Chlorine plant ordered	Oct 24 29	Wishart, Jr., tells San Francisco analysts company sees two promising developments in technology affecting future profits	Oct 31 10
Tennis Time Associates — Tennis clubs to use Borden's Elastofur neoprene surface	Sept 19 21	Tretolm (Helsingborgs Gummitfabriks AB Tretolm) — Unpressurized tennis ball	Sept 19 23		
Termin Industrie Chimiche — PPG-licensed silica pigments plant to be built near Rome	Oct 17 13	Trojan Powder Co. — Explosives market (chart)	Nov 21 51	Union Carbide Canada — Canada's crippling rail strike clobbers chemicals	Sept 5 14
Texaco — Canada tax on crude may force cutbacks at some refineries	Oct 3 21	Trumbull Asphalt — Koppers ends merger talks	Dec 5 22	Ethane exports proposed by Dome Petroleum and Dow opposed	N Sept 19 31
Coastal States Gas and Texaco cancel their interrelated purchases contract setting antitrust suit	Nov 28 15	Tucson Gas — Syngas plant using naphtha and the Lurgi Gasosyn process will be built near Tucson, Ariz.	Aug 8 9	LDPE resin prices	N July 4 12
Dividend raised	Nov 7 15	Turner & Newall — Purchases two plastic molding compounds and fabrication plants from Bakelite Xylonite	Oct 10 31	Petrochemicals: \$35-million expansion under way	N Aug 15 25
Ethylene plant feasibility study	Nov 1 11	UCB — Union Quimica del Sur see under name		Sales and earnings, first-half '73	R Aug 8 16
FTC charges unlawful monopoly in the refining of crude oil	July 25 19	Ugine Kuhlmann, Produits Chimiques — Methanol plant at Villers-St. Paul on stream	Aug 8 16	Nine-months '73	N Nov 14 21
Louisiana refinery capacity boost	Aug 1 5	Uhde, Friedrich GmbH — Asahi Glass will use electrolysis to recover chlorine from effluent hydrochloric acid from refrigerant plant	Nov 7 76	SOAP: UC may replace Dow as a participant in the project N Sept 5-23	Oct 24 29
Natural gas case ruling that FPC exceeded its authority in deregulating small producers goes to Supreme Court	Oct 3 20	Chlorine plant for Travancore Cochran	N Oct 24 29	Union Corp. — Hydrophilic plastics may hold a new key to controlled release of drugs and medicines	N Sept 19 39
Oil problems	Dec 12 12	Ultrasonic Ltd. — Sonic homogenizer	Dec 5 38	L'Union des Industries Chimiques — French chemical production increased 20.4% in the first half	N Aug 29 29
Puerto Rican gasoline producers protest price controls	Aug 29 9	Ulvac Corp. — Method of making ultrafine metal powder may be commercialized	Aug 29 33	Union Explosivos Rio Tinto — Methylenes and derivatives joint venture with ICI	R Aug 15 27
Reynolds' Buffalo coal reserves may be acquired	Oct 10 16	Underwood, Wm. — Stauffer buys AccCent International	Aug 8 9	Methylenes project proposed for Spain	R Oct 3 33
Texas Eastern Cryogenics — Cited for alleged violation of job-safety standards in connection with LNG storage tank disaster at Staten Island, N.Y.	July 25 28	Urie Van Kunstsmet Fabriek — Phosphoric acid unit planned in Rotterdam	July 11 35	Union Oil of California — Geothermal steam: private property rules San Francisco judge	Nov 7 16
Texas Eastern Transmission — Cited for alleged violation of job-safety standards in connection with LNG storage tank disaster at Staten Island, N.Y.	July 25 28	Unifil — Discussing possibility of affiliation with Detweiler	Dec 5 22	Oil problems	Dec 12 12
Texas Gas Transmission — "North Star" natural gas deal signed with Soviets	July 11 15	Unifos-Kemi — Sales and earnings: 73 eight months	Oct 24 29	Union Quimica del Sur — Methylenes and derivatives plant in Spain	R Aug 22 50
SNHG plant completed	Oct 3 24	Union Camp Corp. — Chemical Div. reports to Chicago analysts on sales, expansions etc.	Sept 26 18	Seeks permission to build plant at Huehla	R Oct 3 33
Texagulf — Canada Development Corp. makes tender offer for up to 10 million shares	Aug 1 9	Establishing "tree plantations" to supply its mill at Savannah, Ga.	Dec 12 10	Univac — Acquires 50% interest in Manul Gomma	R Aug 8 16
Bid stalled by suits, countersuits Aug 9-15	Sept 12 29	Union Carbide — Air-separation plant at East Chicago, Ind. gas complex	Aug 29 13	Latex and synthetic rubber production at one of Naugatuck, Conn., units discontinued	N Nov 21 20
Bid for control may be blocked by Texas-gulf's rising stock prices	Oct 3 15	Antifreeze production cut due to glycol shortage	July 11 20	Plastics use in autos will decline	N Dec 19 29
Will rose profits change Texas stockholders views on tenders?	Oct 17 24	Anitwerp projects	July 11 35	Rubber chemicals complex in Brazil	R Aug 22 47
CDC's next step — board representation	Nov 28 16	AEC contract renewed	July 4 10	Rubber prices	N Nov 28 33
Settlement between the two companies	Dec 12 9	Bakelite Xylonite sells two plastic molding compounds and fabrication plants to Turner & Newall	Oct 10 31	Strikes at Scotts Bluff and North Baton Rouge, La. plants	R Aug 15 18
Fogarty, Charles: He trimmed his weight, built up company	Nov 28 56	Bower, Robert v.p.: He knows how to build the big ones	Oct 24 44	United Nuclear — Bowing out of its 43% partnership with Gulf Oil in Gulf United Nuclear Fuels Aug 15-16	Sept 26 17
Phosphate expansion in North Carolina N Sept 19-25	Oct 10 12	Brazil: Cubatão Wulff process olefins unit slated for shutdown after years of problems	Aug 22 16	Interest in Uranium Recovery	R Aug 1 36
Sulfur prices	Aug 8 19	Capacitor and electronic substrates capacities to be boosted	Dec 5 22	U.S. Gypsum — Process to pelletize gypsum to serve as a carrier for agricultural products	N July 25 22
Texize Chemicals — Prolong, preserver for Christmas trees and flowers	Dec 19 32	Contracts to purchase naphtha from the Soviets	July 4 34	U.S. Industrial Chemicals — Film Products Div. multifilm coextruded bags	July 11 39
Thai Chemical Fiber — Orders polyester fiber plant from Zimmer	Aug 29 30	Ethanolamine capacity at Seadrift, Tex. to be expanded	July 11 24	U.S. Industries — Scott Paper will buy plant in Rogers, Ark.	R Oct 31 15
Thai Melon Polyester — Joint polyester-making venture	Oct 3 33	Ethylene from crude oil process offering profits	Oct 31 10	U.S. Steel — Clairton Works are pollution abatement program stepped up: desulfurization plant planned	N July 11 16
Thermal Power Co. — Geothermal steam: private property rules San Francisco judge	Nov 7 16	More details on new crude oil cracking technology	Nov 7 76	Cited for 63 air pollution violations	N Nov 14 28
Thiokol Chemical — Building a defensive perimeter against a possible takeover attempt N Oct 24-9	Nov 28 18	Correction	Dec 12 51	Clean-coke process described at AIChE meeting	Nov 21 27
Contract from NASA to develop the huge solid-fuel rocket engines for space shuttle	Nov 28 11	Ethylene glycol-from-synthesis gas plant studied	N Dec 5 36	Pioneering its own version of direct reduction in Venezuela	Sept 5 32
Thomas Petroleum Transport — Dow Chemical shipment of chloroform spills into Mississippi River as barge breaks up	Aug 29 10	Ferrosilicon smelter in Iceland planned	N Aug 1 26	Unifac Exploration & Development Ltd. — Unifac 2.4-D acetate will challenge 2.4-D in battling aquatic weeds	Dec 12 51
Thuron Industries — Vapona for flea collars	Sept 26 34	Gons, discusses energy conservation efforts	Aug 8 27	Unifac — Synthetic fiber plant for North Korea	R Aug 8 16
Ticant — Polyester texturizing and knitting plant in Costa Rica	July 11 36	Graphite electrode plant in Calais, France, planned	Sept 19 33	Contract with Fiat to fill catalyst needs signed	Dec 19 21
Ticaterdis — Holds 50% of Ticanit	R July 11 36	Japan may participate in US uranium enrichment plants	Aug 8 31	Copper tube mill near Shawnee, Okla. planned	Nov 21 20
Time Chemicals — Institutional and industrial cleaners market	Aug 22 51	Lake Waccabuc eutrophication will be battled with aeration technique called hypolimnion	N July 25 22	Fluid Science Div. — paper industry's first application of reverse-osmosis to waste water treatment at Green Bay Packaging	Sept 19 39
Tipperary Corp. — Coal gasification project agreement	Oct 10 9	Retards eutrophication	N Dec 5 36	GM drops company as catalyst supplier	Aug 29 12
Timotex — Italian government approves				Norplex Div. plans plastic sheet plant near Postville, Ia.	R Sept 26 17
				Process for benzene-toluene-xylene plant for China	R July 4 35
				Sales and earnings, third-quarter '73	Oct 17 22
				Upjohn — Antibiotics fermentation plant being	

built in Arecibo, Puerto Rico, to be expanded R Sept 19 19
 Antibiotics settlement. Five major drug companies will shell out \$39.6 million N Oct 24 9
 Depo-Provera, birth-control injection, will require warnings to patients before it can be used N Sept 26 10
 FDA gives preliminary approval for limited use R Oct 24 16
 Kaser-Upjohn see under name
 Methylenebisphenyl isocyanate at La Porte, Tex. capacity increase R Nov 7 15
 Urethane makers face product-misrepresentation lawsuit over flammability Oct 10 16
 Uranium Recovery — Uranium separation unit will be installed in Grace's phosphoric acid plant at Bartow, Fla. N Aug 1 35

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Valley Nitrogen — Phosphate rock shipment from Spanish Sahara arrives N Aug 22 41
 Van Dyk — Sunscreen supplier July 25 35
 Van Houten Associates — Puerto Rico considering three sites for superport complex (map) Aug 22 15
 Van Leer Plastics — HDPE for St. Regis' "cross plastic" bags July 11 39
 Vanguard Industries — Acquired by Midland-Ross Sept 19 19
 Varian Associates — Absorption spectrophotometer measures minute concentrations of cadmium in about 30 seconds N Aug 1 36
 Veba AG — Refinery delayed because of proximity to a bird sanctuary Oct 17 68
 To study refinery at Buschir, Iran N Sept 12 68
 Veba Chemie — Gulf's interest in Erdölwerke Frisia to be bought R Aug 22 49
 Velsicol — Chattanooga, Tenn., benzyl chloride plant fire and explosion N July 4 12
 Vereinigte Aluminiumwerke — Environmentalists delay smelter Oct 16 68
 Vibra Screw Inc. — Volumetric feeders Dec 5 38
 Vinyl Products Ltd. — Purchases BP's PVA and VA copolymer emulsion units at Barry, Wales N Oct 24 26
 Virginia Chemicals — Liquid sodium bisulfite is available from Bucks, Ala., plant N Oct 24 20
 Virginia Fibre — Semicheical corrugating-medium board mill planned in Riverville,

Va. R Oct 17 25
 Vistron Corp. — Barex 210 plant planned Oct 24 13
 Volvo — Assembly plant at Chesapeake, Va., will open new market for U.S. chemical suppliers N Sept 19 9
 Von Roll Ltd. — Water-walled incinerator Sept 26 29

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Wacker-Chemie — Sales and earnings in '72 R July 4 35
 Walworth — Butterfly valves Dec 5 40
 Warner-Lambert — Gibin reports to N.Y. analysts Dec 19 18
 Listerol spray: New sprays and gels challenge for room deodorant market July 18 23
 SOFTCON hydrophilic contact lenses receive FDA approval July 18 15
 West Chemical — Bacteriostatic formulations for carpet cleaners Aug 29 26
 Institutional and industrial cleaners market Aug 22 51
 Western Cooperative Fertilizers — Sulfuric acid plant at Calgary, Alta., planned R Sept 12 55
 Western Japan Trading Co. — China orders PE plant Aug 29 30
 Westinghouse Electric Corp. — Contracts to build the nuclear steam supply portion of the first large-scale fast-breeder reactor in the U.S. Nov 21 15
 Japan may participate in US uranium enrichment plants N Aug 8 31
 Membrane system will recover lactose and protein from whey N Oct 10 21
 Westinghouse Research Laboratories — Niobium-germanium compound superconducts at record high temperatures N Sept 19 39
 Weston, Roy Associates — Report on organic chemicals effluents Aug 15 33
 Whittaker Corp. — Third-quarter operating loss reported R Sept 5 16
 Williams Companies — Arizona explosion raises more questions about tank car safety July 18 16
 Wilson Pharmaceutical & Chemical — Dividend omitted R Nov 7 15
 Windecker Co. — Windecker Eagle I: Dowsponsored all-plastic airplane turns in fastest time in Powder Puff Derby Aug 8 33
 Winnebago Industries — Moving market slows

due to fuel shortage, feedstock supply problems, tight money Dec 19 20
 Witco Chemical — Dividend raised R Dec 19 21
 Plastics Show features new polyester, polybutylene resins Nov 14 16
 Polybutylene markets: Witco bets on pipe, film and container markets Sept 26 23
 Polybutylene plant size to be doubled at Taft, La. N Aug 15 9
 Price hikes asked for organo-tin stabilizers epoxy plasticizers and thiodipropionates N Sept 26 21
 Wyandotte — Institutional and industrial cleaners market Aug 22 51

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Xonics, Inc. — Electronic X-ray process doesn't use silver-halide film N Aug 1 35

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Yacimientos Petroliferos Fiscales — Reactivating plan to build ammonia-based fertilizer unit R Aug 22-50 R Oct 17 62
 Young Poong Trading — Sulfuric acid plant at Seokpo, South Korea R Sept 12 55

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Zennoh — Potash contract with Canpotex Ltd. N Oct 10 19
 Zep — Institutional and industrial cleaners market Aug 22 51
 Zeston — Acquired by Johns-Manville R Oct 31 15
 Zimmer — Nylon-6 plant to be built at Edirne, Turkey R Oct 3 33
 Nylon yarn plant for Singapore Nylon Corp. R Aug 29 30
 Thai Chemical Fiber orders polyester fiber plant R Aug 29 30
 Zoecon Corp. — Altosid SR-10 growth-regulating mosquito larvicide: California conducts tests Aug 29 33
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